# SERVICE MANUAL

# AEP Model

Chassis No. SCC-681A-A



For Service Manuals
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August, 1985

#### **SPECIFICATIONS**

Color system PAL and SECAM systems, switched

automatically

Picture tube Microblack Trinitron tube

Approx. 195 mm (9 inches)

(Approx. 221 mm picture measured di-

agonally)

70-degree deflection

Resolution 250 TV lines (B/W)

Color temperature

6500°K

Frequency response

4 MHz (-3 dB)

Horizontal linearity

±8%

Vertical linearity

±8%

Line pull range Horizontal ±500 Hz

Overscan of the picture

6%

Underscan of the picture

5%

H/V delay

Horizontal: Approx. 1/4 line

Vertical: Approx. 1/2 field

Return loss

5 MHz, -30 dB (VIDEO A IN, VIDEO B

IN)

Zooming

Within 3%

Convergence

Central area 0.5 mm

Periphery 0.7 mm

**Brightness** 

More than 50 foot-lamberts

Inputs

VIDEO IN (VIDEO A, VIDEO B):

BNC connector

Composite 1 V p-p ±6 dB, 75 ohms, unbalanced, sync

negative

Non-composite 0.7 V p-p EXT SYNC IN: BNC connector Composite sync 4 V p-p ±6 dB, sync negative, 75 ohms and high

impedance switchable

Loop-through outputs

VIDEO OUT (VIDEO A, VIDEO B):

BNC connector

Composite 1 V p-p ±6 dB, 75 ohms, unbalanced, sync

negative

Non-composite 0.7 V p-p

EXT SYNC OUT: BNC connector Composite sync 4 V p-p ±6 dB, sync negative, 75 ohms and high

impedance switchable

TALLY connector

4-pin DIN connector

Power requirements

220/240 V ac, 50/60 Hz

Power consumption

35 W ac, max.

- Continued on next page -

# TRINITRON ® **COLOR VIDEO MONITOR** SONY





Dimensions

Approx.  $216 \times 219 \times 319 \text{ mm (w/h/d)}$ 

 $(8^{5/8} \times 8^{5/8} \times 12^{5/8} \text{ inches})$ 

incl. projecting parts and controls

Weight

Approx. 7.5 kg (16 lb 9 oz)

not incl. accessories

Accessories supplied

AC power cord (1)

Tally connector (4-pin DIN) (1)

Number plate (1 set)

Optional accessory

Mounting bracket MB-504

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through reseach and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

Your dealer may not handle the above optional accessory. Please ask the dealer for detailed information about the optional accessories available in your country.

### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

① ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS
THAT ARE CRITICAL TO SAFE OPERATION ARE
IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE
REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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# SECTION 1 GENERAL

#### 1-1. FEATURES

# Microblack<sup>™</sup> Trinitron<sup>®</sup> picture tube

The Microblack Trinitron picture tube gives a high resolution, high contrast picture.

#### PAL/SECAM broadcasting standard receivable

The monitor can receive PAL and SECAM signals. The appropriate broadcasting standard is selected automatically.

#### Push-to-lock controls

In the locked position, the controls are protected from damage during carriage of the unit. The protruding position allows easier operation.

#### Monitor of sync signals

The H/V-DELAY switch allows horizontal and vertical sync signals to be displayed on the screen.

#### Blue only picture

By using the B-ONLY switch, the picture can be displayed in blue and black only, facilitating observation of VTB noise

#### Underscan mode

The signal normally scanned outside of the screen can be monitored in the underscan mode, providing check facility of video signals.

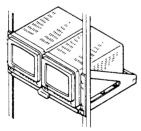
#### External sync connection

The unit can operate on an external sync signal in synchronization with other VTR equipment.

#### Two video inputs

Two video sources can be connected to the unit. Either input can easily be switched by pressing the INPUT select switch.

By using an optional MB-504 mounting bracket, this unit can be mounted in an EIA standard 19-inch rack.



For mounting details, refer to the instruction manual of the MB-504.

#### 1-2. PRECAUTIONS

#### On safety

- Operate the unit only on 220/240 V ac.
   Use only the supplied ac power cord. Do not use any other type.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- •Unplug the unit from the wall outlet if it is not to be used for serveral days.
- •To disconnect the ac power cord, pull it out by the plug. Never pull the cord itself.

#### On installation

- Allow adequate air circulation to prevent internal heat build-up.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Keep the unit away from strong magnets or magnetic fields such as a loudspeaker or motor, as the picture may be affected.

#### On cleaning

To keep the unit looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it

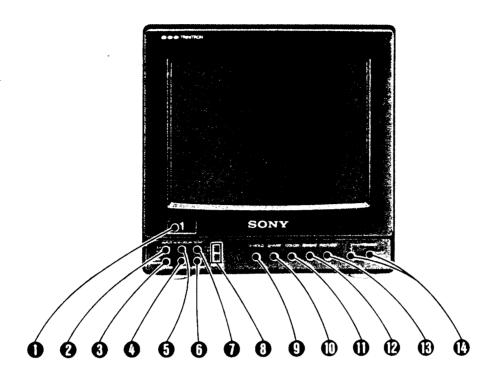
#### On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

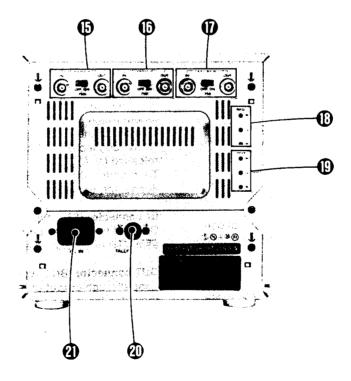
If you have any questions about this unit, contact your authorized Sony dealer.

# 1-3. LOCATION AND FUNCTION OF CONTROLS

Front panel



Rear panel



Each number in the text is keyed to that of the photos on page 5.

#### **FRONT PANEL**

#### Tally lamp

PVNF9220NE

This lamp is turned on and off according to the signal supplied to the TALLY connector at the rear from a control console or special-effects generator. To identify the monitor, insert the supplied number plate.

#### **1NPUT** select switch

Keep this switch released ( $\square$  A) to monitor the signal from the VIDEO A IN connector.

Depress the switch ( $\triangle$  B) to monitor the signal from the VIDEO B IN connector.

#### SCAN mode select switch

Keep this switch released ( $\square$  NORM) for normal scanning.

Depress the switch (<u>A UNDER</u>) to reduce the display size by about 5% (underscanning mode) and to view a picture which does not appear in normal scanning.

#### B·ONLY (blue only) switch

Normally keep this switch released (□ NORM). Depress the switch (□ BLUE) to turn off the red and green beams. The picture will be displayed in blue and black only. This facilitates observation of VTR noise.

### 6 H/V-DELAY switch

Normally keep this switch released.

To monitor the sync signals, depress the switch. The picture is shifted horizontally and vertically. The horizontal sync is displayed in left approximately one quarter of the screen and the vertical sync is displayed near the center of the screen.

#### **6** SECAM switch

Depress this switch when a picture from SECAM color sources is distorted. The picture will become clear.

#### **O** SYNC switch

Normally keep this switch released ( $\square$  INT). The monitor is driven with the internal sync signal.

To drive the monitor with an external sync signal connected to the SYNC IN connector at the rear, depress the switch (m EXT).

#### Color system indicators

Indicate the color system of the input video signal: PAL or SECAM.

#### O V HOLD (vertical hold) control

If the picture rolls vertically, correct it with this control.

#### ® SHARP (sharpness) control

Adjusts the sharpness of the picture. Clockwise rotation makes the picture sharper; counterclockwise rotation makes it softer.

#### **©** COLOR control

Adjusts the color intensity of the picture. Clockwise rotation makes the picture more vivid; counterclockwise rotation makes it paler.

#### P BRIGHT (brightness) control

Adjusts the brightness. Normally set this control at the center detent position. Clockwise rotation makes the picture brighter; counterclockwise rotation makes it darker.

#### PICTURE control

Adjusts the contrast, intensity and brightness simultaneously in the proper ratio.

Before turning one of the controls ② to ③, for easier operation press on it to release the control to a protruding position.

#### POWER switch and indicator

To turn the monitor on, depress the POWER switch ( $\supseteq$  ON). The POWER indicator lights. To turn it off, press the switch again ( $\square$  OFF).

#### **REAR PANEL**

#### S VIDEO A, O VIDEO B

Two video input connectors (VIDEO A and VIDEO B) for the composite video signals and their loop-through output connectors.

To monitor the input signals connected to the VIDEO A IN connector, keep the INPUT select switch released ( $\square$  A).

To monitor the input signals to the VIDEO B IN connector, depress the INPUT select switch ( $\Rightarrow$  B).

#### IN connector (BNC type)

Connect to the video output of video equipment, such as a VTR or a color video camera.

## **OUT connector** (BNC type)

Loop-through output of the IN connector. Connect to the video input of a VTR or another monitor.

#### 75 $\Omega$ termination switch

When only the IN connector is used (the OUT connector is not used), set this switch to ON. When both the IN and OUT connectors are used together for a loop-through connection, set the switch to OFF.

#### **®** EXT SYNC (external sync)

#### IN connector (BNC type)

When this monitor operates on an external sync signal, connect the reference sync signal to this connector.

#### **OUT connector** (BNC type)

Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

#### 75 $\Omega$ termination switch

When only the EXT SYNC IN connector is used (the EXT SYNC OUT connector is not used), set this switch to ON. When both the EXT SYNC IN and OUT connectors are used together for a loop-through connection, set the switch to OFF.

#### ® R/G/B BKG (background) controls

Used for adjusting the white balance of the background.

#### ® R/G/B DRIVE controls

Used for adjusting the white balance at the white peak.

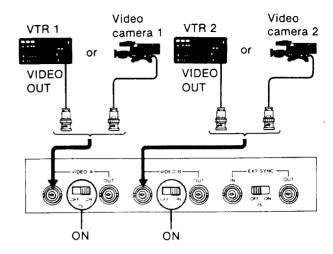
### @ TALLY connector (4-pin DIN)

Connect to the tally output of a control console, special-effects generator, etc. The tally lamp on the front panel will be turned on or off by the connected console or special-effects generator.

#### 20 AC IN socket

Connect the supplied ac power cord to this socket and to a wall outlet.

# 1-4. SYSTEM CONNECTIONS CONNECTING A VTR OR CAMERA

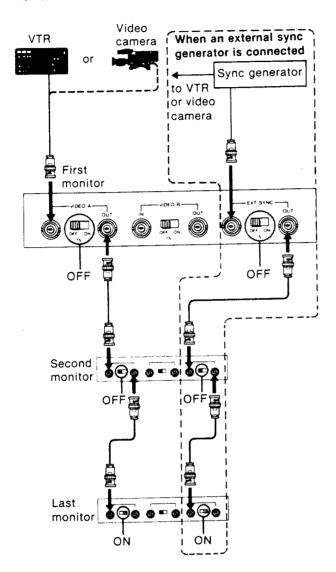


11/22/2012

# CONNECTING SEVERAL MONITORS

www.freeservisenmugla.info M E

A loop-through connection is convenient for monitoring the same signal on several monitors. The VIDEO A OUT connector is for the signal connected to the VIDEO A IN connector, and VIDEO B OUT, for the signal connected to VIDEO B IN. Up to 10 monitors can be connected for each group. Set the 75  $\Omega$  termination switch of the last monitor to ON and those of the other monitors to OFF.



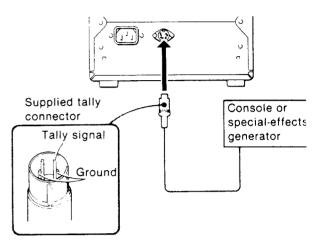
When an external sync generator is connected, depress the SYNC switch (= EXT) on each monitor.

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> Fax (01844) 352554
> email:- mauritron@dlal.pipex.com

#### **TALLY CONNECTION**

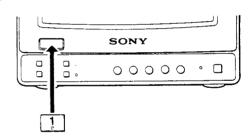
To utilize the tally-lamp feature of this monitor, connec the TALLY connector at the rear of the monitor to a cor trol console, special-effects generator, etc. using th supplied tally connector. The No.1 (ground) and No. (tally) pins should be connected to the corresponding pins of the tally out connector.

The tally lamp on the front panel will be turned on or o by operating the console or special-effects generator.

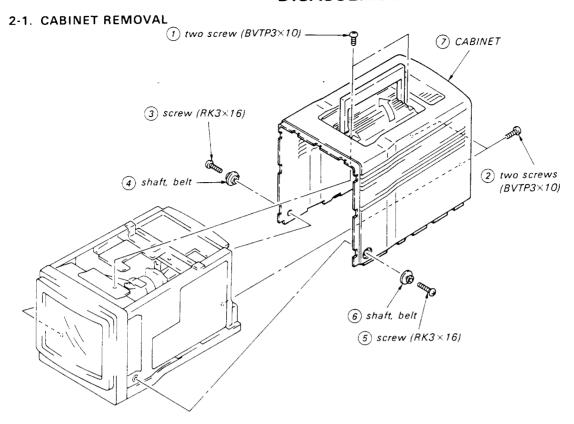


#### How to use the supplied number plate

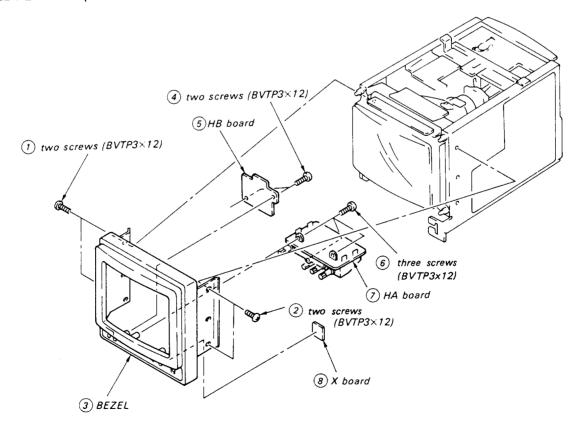
To identify the monitor in your system, insert the sur plied number plate under the tally lamp cover. When th tally lamp lights, the number will be illuminated.



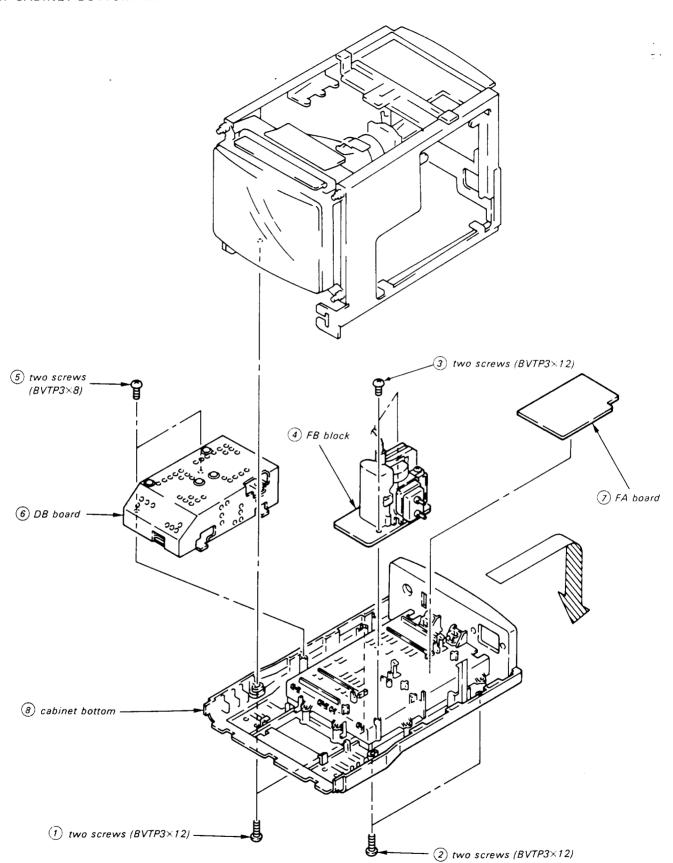
# SECTION 2 DISASSEMBLY



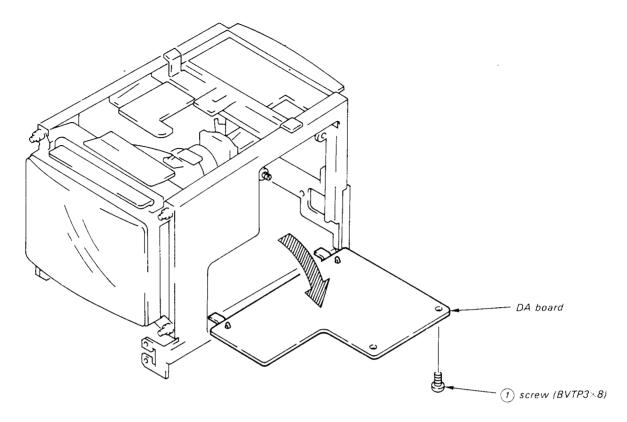
# 2-2. BEZEL REMOVAL (HA, HB, X BOARD)



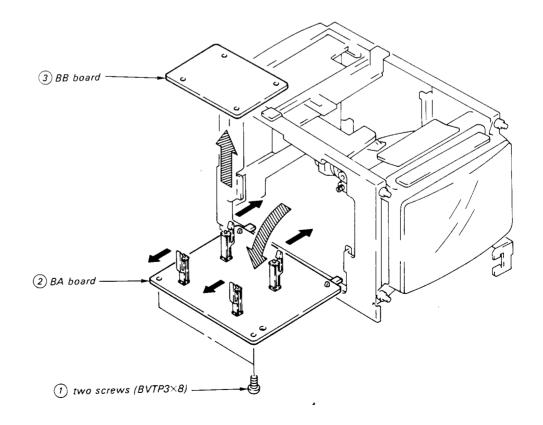
# 2-3. CABINET BOTTOM REMOVAL

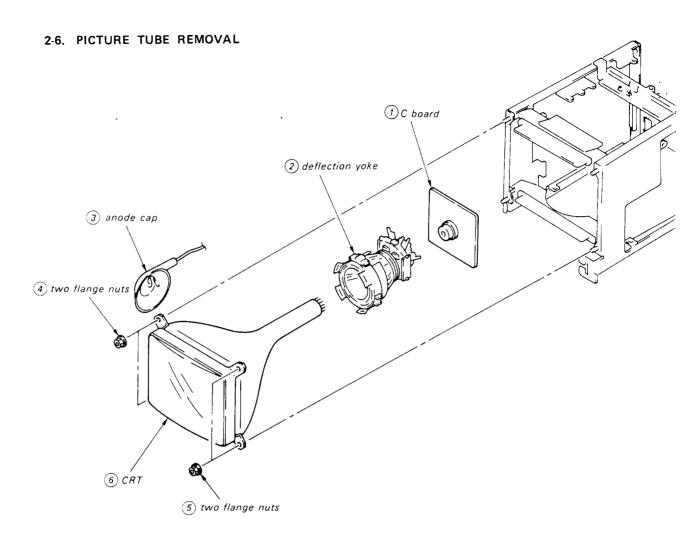


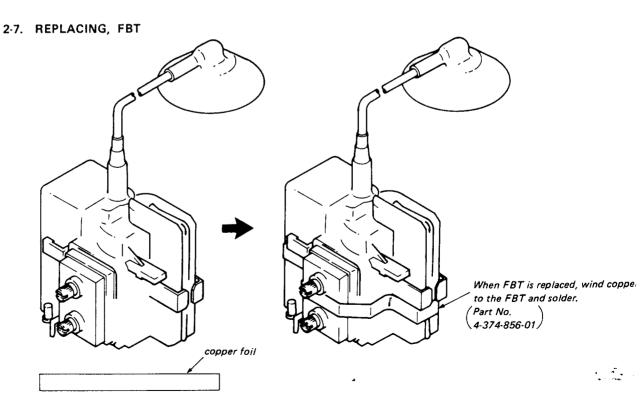
# 2-4. DA BOARD REMOVAL



# 2-5. BA, BB BOARD REMOVAL







# SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Controls and switch should be set as follows unless otherwise noted:

BRT, CONTR controls . . . . fully clockwise

Make the following adjustments in the order as follows given:

- 3-1. Beam Landing
- 3-2. Focus Adjustment
- 3-3. Convergence
- 3-4. White Balance

Note: Test Equipment Required

- 1. Color-bar/pattern generator
- 2. Degausser

### 3-1. BEAM LANDING

#### Preparation:

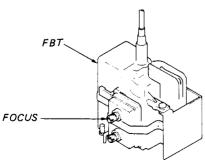
- Before starting, degauss the entire screen.
- Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Adjust purity control to center the slide between two projections as shown in Fig. 1-1.
- 4. Slide deflection yoke as far forward as it will go.
- Turn RED CUT OFF VR (RV259) MAX and GREEN (RV261) and BLUE CUT OFF RV (RV263) MIN.
- Turn purity control to center vertical red band as shown in Fig. 1-2.
- Slide deflection yoke back for a uniform red screen.
- 8. Check green and blue rasters for uniformity. Repeat the steps 6, 7 and 8.
- Turn all CUT OFF VR (RV259, 261, 263) for mechanical CENTER.
- 10. Install the deflection yoke spacers.
- 11. Tighten the deflection yoke screw.
- 12. Check if mislanding appears at corners a-d as shown in Fig. 1-3. If mislanding is observed, correct it as shown in Fig. 1-4.

### 3-2. FOCUS ADJUSTMENT

- (1) Input monoscope signal.

  PICTURE control.....80%

  BRICHT control.....50%
- (2) Adjust FOCUS control for a best picture at the center and both sides of the screen.



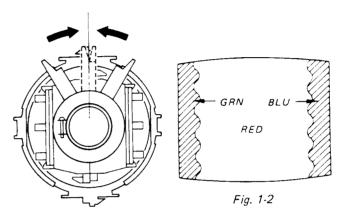


Fig. 1-1

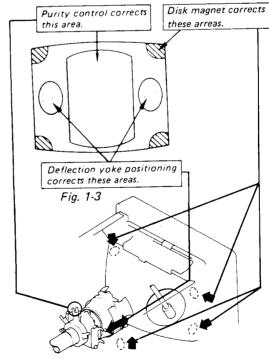


Fig. 1-4

7 - il

**3-3.** Prepa

• 1

(1) I

dots.
Move

Rotat conve

- OR

(2)

Prep •

1. 2. 3.

4. 5.

5. .-

3

(1)

-1.

3.

(2)

1.

2.

3.

4.

5.

7.

# 3-3. CONVERGENCE

## Preparation:

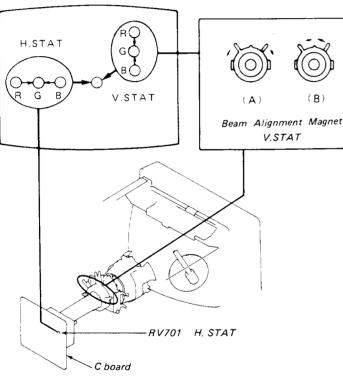
- Before starting, make FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Turn BRT control fully counterclockwise.
- Feed in the dot pattern.
- (1) Horizontal Static Convergence and Vertical Static Convergence

If blue dot does not coincide with red and green dots,

Move BMC magnet to correct insufficient H.Static convergence.

Rotate BMC magnet to correct insufficient V.static convergence.

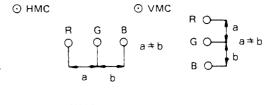
In either case, repeat Beam Landing Adjustment.

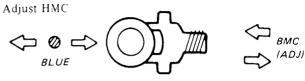


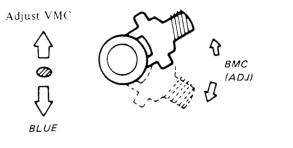
(2) Dynamic Convergence Adjustment

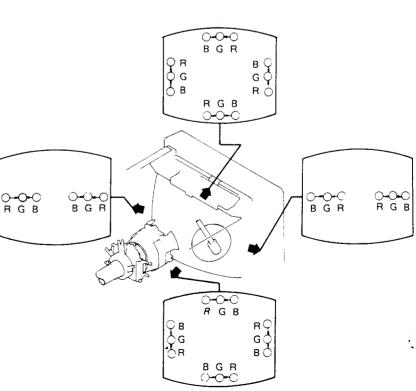
#### Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.









#### 3-4. WHITE BALANCE

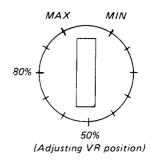
#### (1) SCREEN (G2)

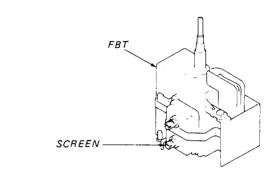
- 1. In put a dots pattern.
- Set the PICTURE control at minimum and turn the BRIGHT control fully counterclock wise.
- Confirm that BKG voltage is less than 105V dc when turning RV259 (R.BKG), RV261 (G.BKG) and RV263 (B.BKG).
- Note the color which becomes visible first when turning SCREEN VR.

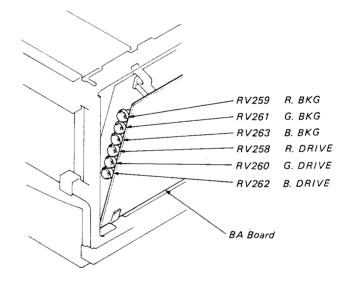
#### (2) WHITE BALANCE

(DJ

- l. Input a cross-hatch pattern.
- Set the PICTURE control to minimum and turn the BRIGHT control click position.
- Turn RV262 (B.DRIVE), RV260 (G.DRIVE) and RV258 (R.DRIVE) fully clockwise.
- Set RV259 (R.BKG). RV261 (G.BKG) and RV263 (B.BKG) to minimum.
- Turn RV518 (SUB BRT) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning. Do not turn a BKG control for this color.
- 6. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch. Set the PICTURE control to maximum and turn the BRIGHT control fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
- 7. Repeat steps 1. through 6. several times.









# SECTION 4 CIRCUIT ADJUSTMENTS

# Note: (1) TEST EQUIPMENT REQUIRED

- 1. Oscilloscope
- 2. Digital multimeter
- 3. Color-bar/pattern generator

# (2) INPUT SIGNAL

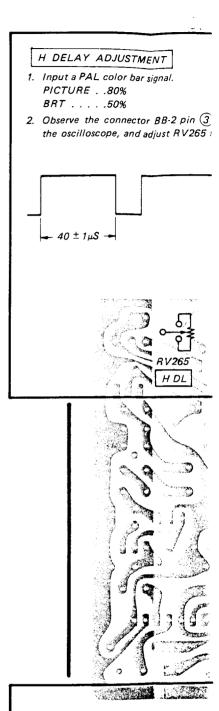
When making these adjustments, supply a colorbar or an off-air signal.

(3) These adjustment should be performed with the rated power supply voltage unless otherwise noted.

#### (4) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
1H DELAY V. DELAY LINE PULSE DELAY	ВВ	16-17
SUB CONTRAST SECAM COLOR LEVEL	НА	18
ANT PAL SUB COLOR APC KILLER POINT CHROMA TRAP SECAM (ID) SECAM (B-Y) BAT ACC	ВА	19-21
POWER SUPPLY OPERATION	FB	22
BLANKING OPERATION CHECK H BLANKING H FREQ V LINE UNDER SCAN, V SIZE V SIZE V CENT	DA	22-24

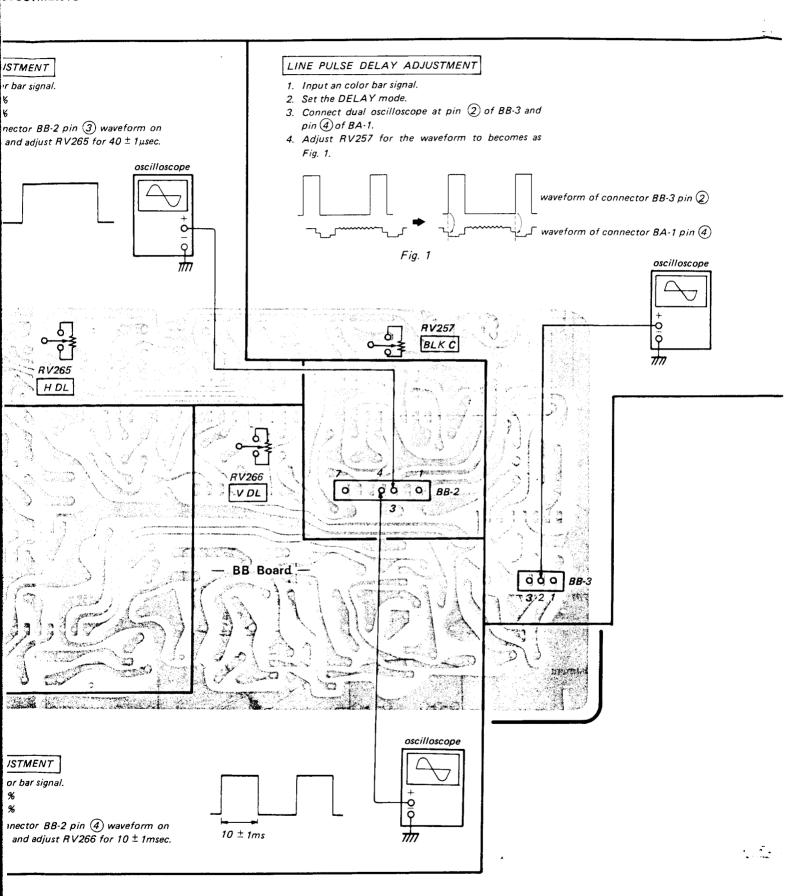
## 4-1. BB BOARD ADJUSTMENTS



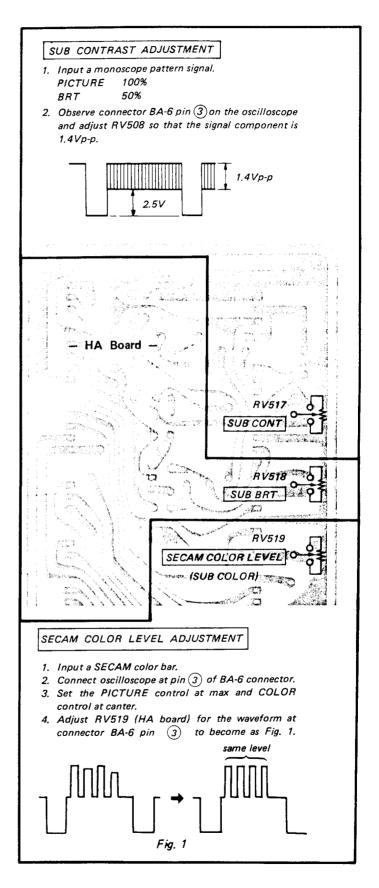
# V. DELAY ADJUSTMENT

- 1. Input a PAL color bar signal.
  PICTURE 80%
  BRT 50%
- 2. Observe the connector BB-2 pin ( the oscilloscope, and adjust RV266

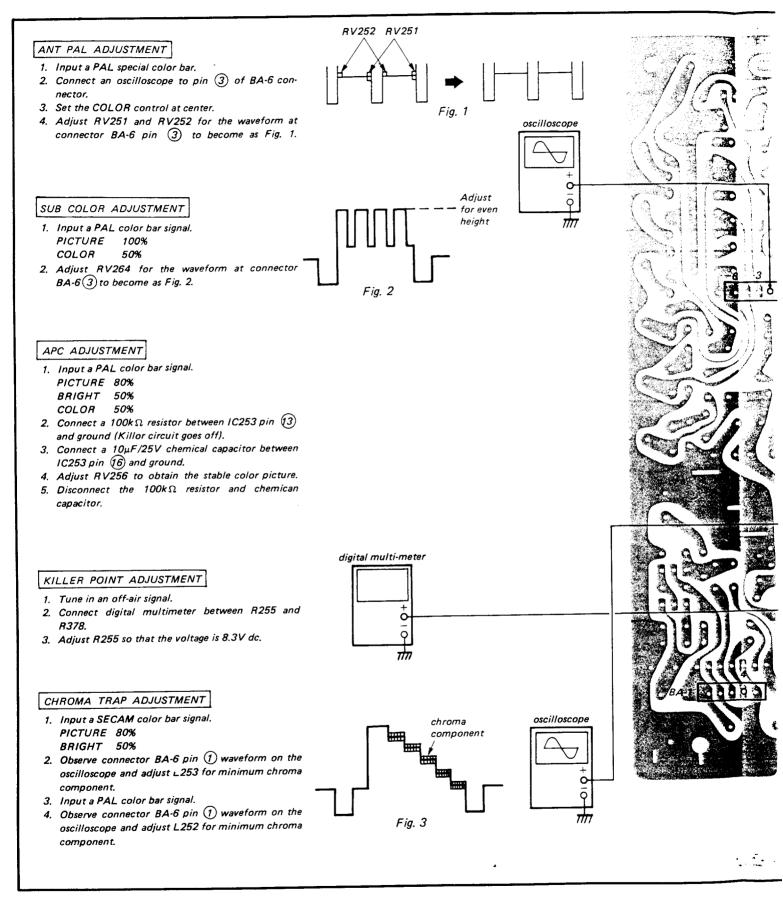
#### **DJUSTMENTS**

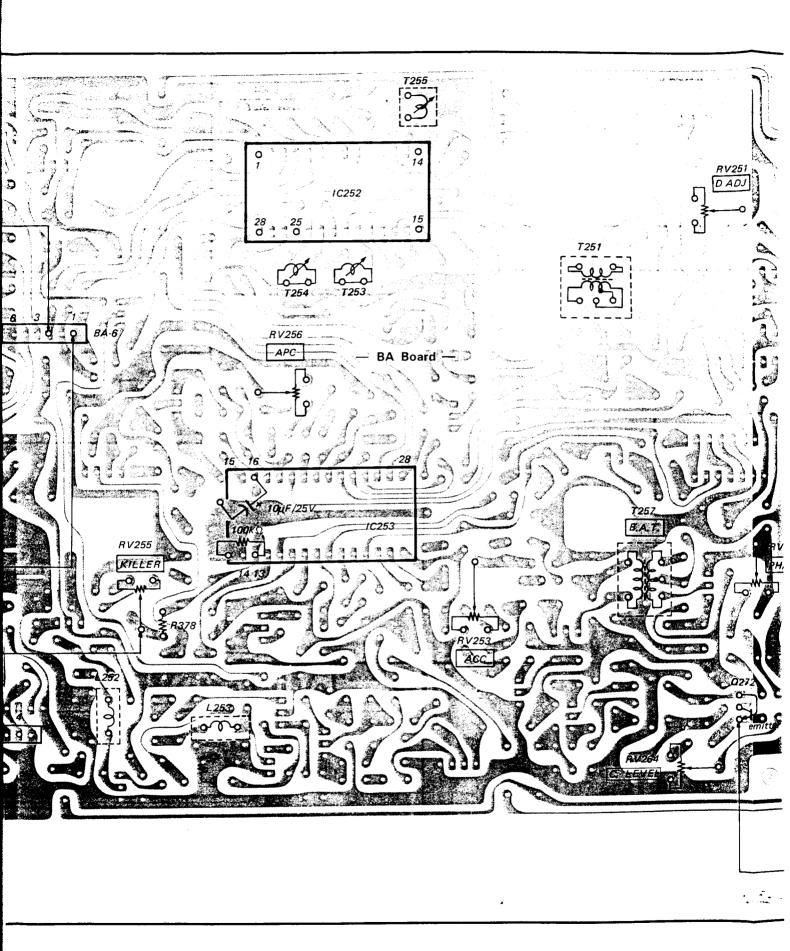


#### 4-2. HA BOARD ADJUSTMENTS



### 4-3. BA BOARD ADJUSTMENTS







# SECAM ADJUSTMENT (ID)

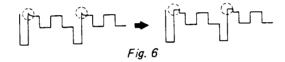
- 1. Input the SECAM color bar.
- 2. Connect an digital multimeter to pin 25 of IC252.
- 3. Adjust T254 so that the digital multimeter reading is maximum.

#### SECAM ADJUSTMENT (B-Y)

- 1. Input the SECAM color bar.
- 2. Connect an oscilloscope to pin 25 of IC252.
- 3. Adjust T253 for the waveform at pin (25) of IC252

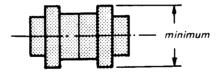


- 4. Connect an oscilloscope to pin 1 of BA-6 con-
- 5. Adjust T255 for the waveform at connector BA-6 pin 1 to become as Fig. 6.



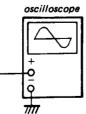
#### BAT ADJUSTMENT

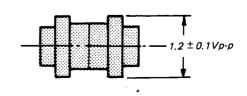
- 1. Input a PAL color bar signal.
  - PICTURE 80% BRIGHT 50%
  - COLOR
- 2. Observe Q272 (E) waveform on the oscilloscope and adjust T257 for minimum chroma component.



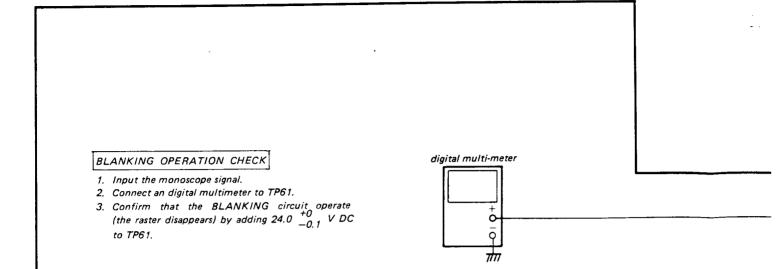
## ACC ADJUSTMENT1

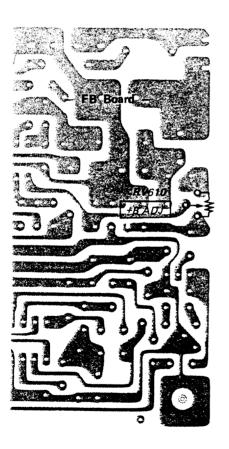
- 1. Input a PAL color bar signal.
  - PICTURE 80% 50%
  - BRIGHT
  - 50% COLOR
- 2. Observe Q272 (E) waveform on the oscilloscope and adjust RV253 so that the signal component is  $1.2 \pm 0.1 Vp-p.$





# 4-4. DA AND FB BOARDS ADJUSTMENTS

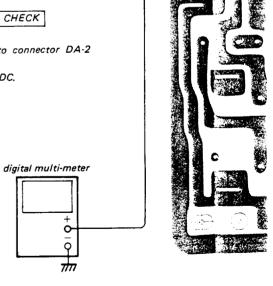


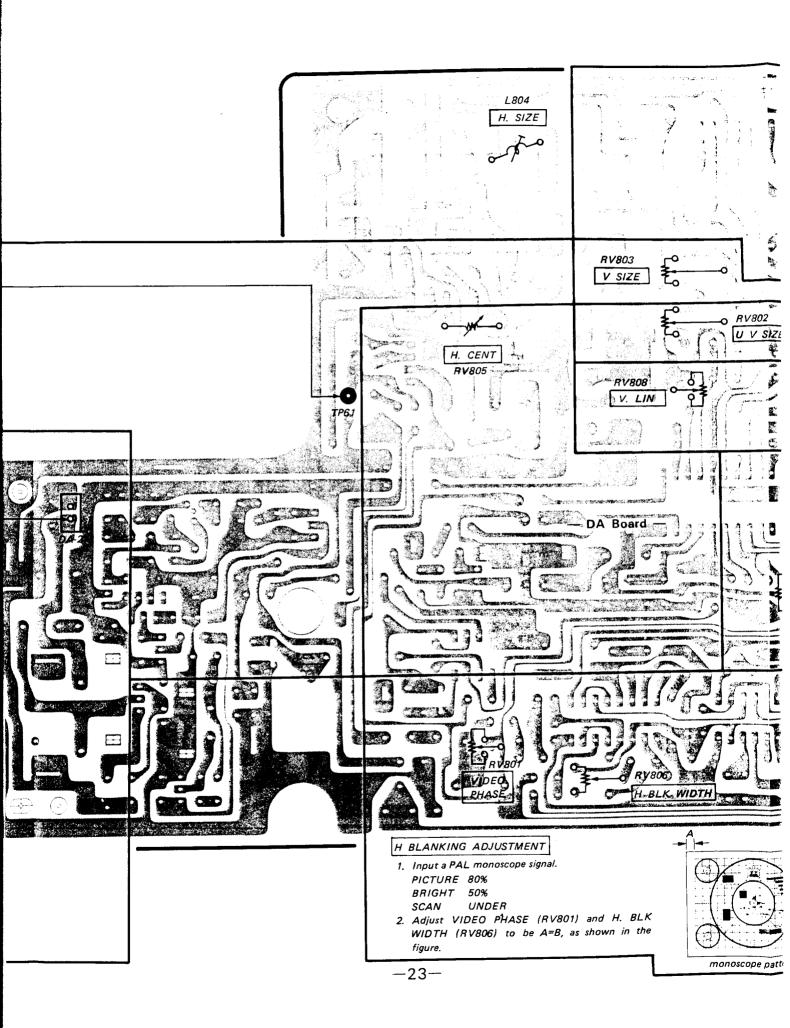


For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4GY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

# POWER SUPPLY OPERATION CHECK

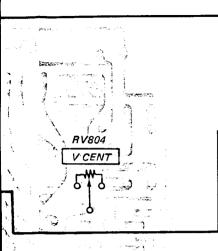
- 1. Input a monoscope signal.
- 2. Connect a digital voltmeter to connector DA-2 pin 1.
- 3. Adjust RV610 for 29.0 ± 0.2V DC.





ΙE

RV802

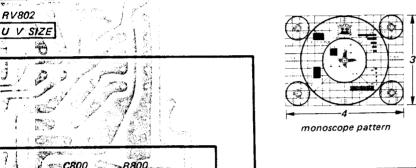


#### V. CENT ADJUSTMENT

- 1. Input a PAL monoscope signal. PICTURE 80% BRIGHT 50%
- 2. Adjust with V. CENT (RV804) so that picture is centered.

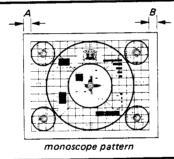
#### V. SIZE ADJUSTMENT

- 1. Input a PAL monoscope signal. PICTURE 80% BRIGHT 50%
- 2. Set the V. SIZE (RV803) to obtain a suitable picture.



### UNDER-SCAN V. SIZE ADJUSTMENT

- 1. Input a PAL monoscope signal. PICTURE . .80% **BRIGHT...50%** SCAN. . . . . UNDER
- 2. Adjust UN V. SIZE (RV802) so that the monoscope pattern of H. SIZE and V. SIZE is 4:3.

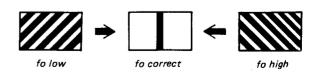


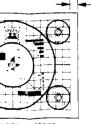
#### V. LINE ADJUSTMENT

- 1. Input a PAL monoscope signal. PICTURE 80% BRIGHT 50%
- 2. Adjust V. LINE (RV808) so that the monoscope pattern of A and B is same scale.



- 1. Input a PAL monoscope signal. PICTURE 80% BRIGHT 50%
- 2. Connect a jumper between C800 minus side and ground.
- 3. Adjust with H. FREQ (RV800) as shown in figure.



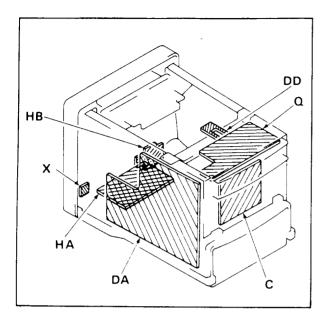


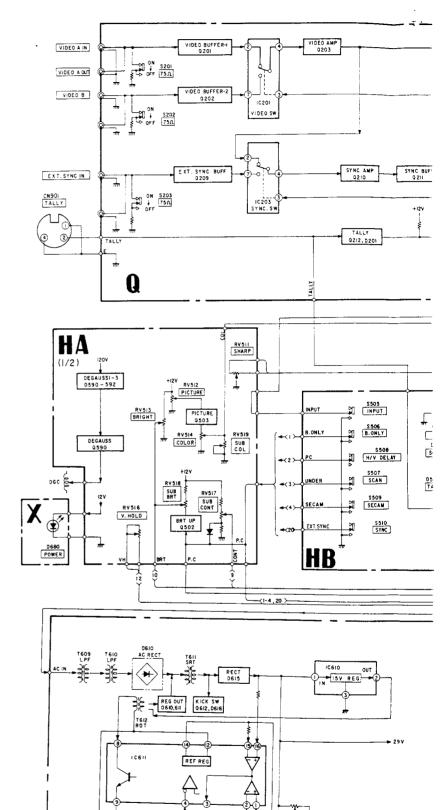
cope pattern

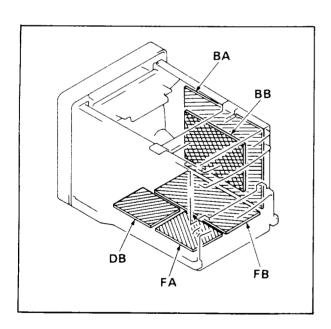
# SECTION 5 DIAGRAMS

### 5-1. CIRCUIT BOARDS LOCATION

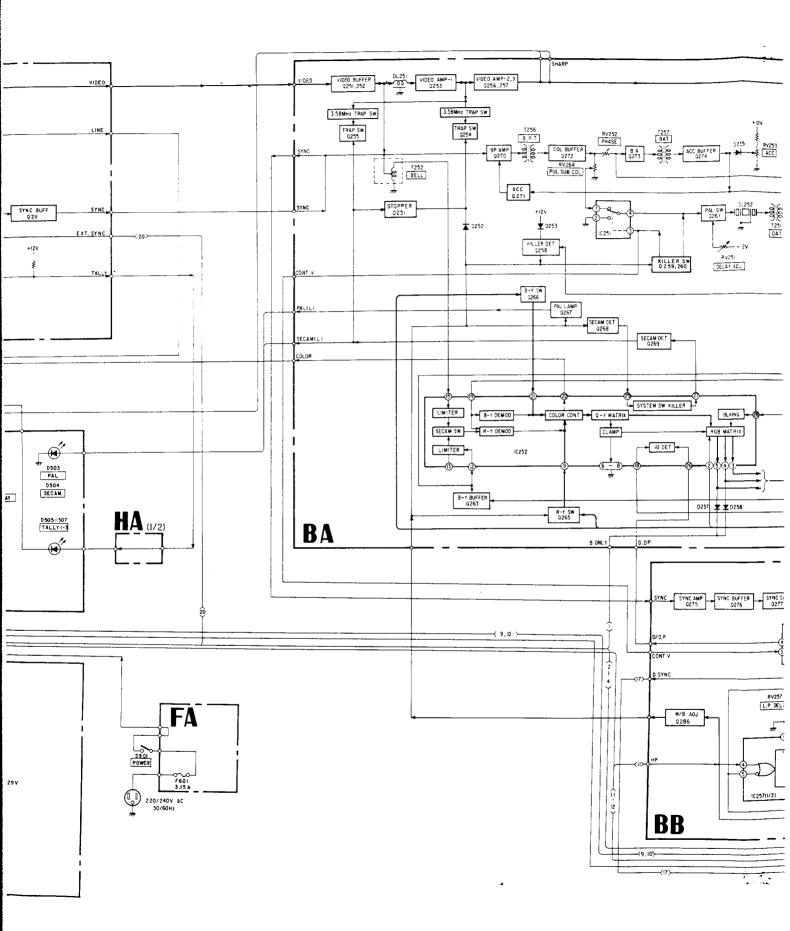


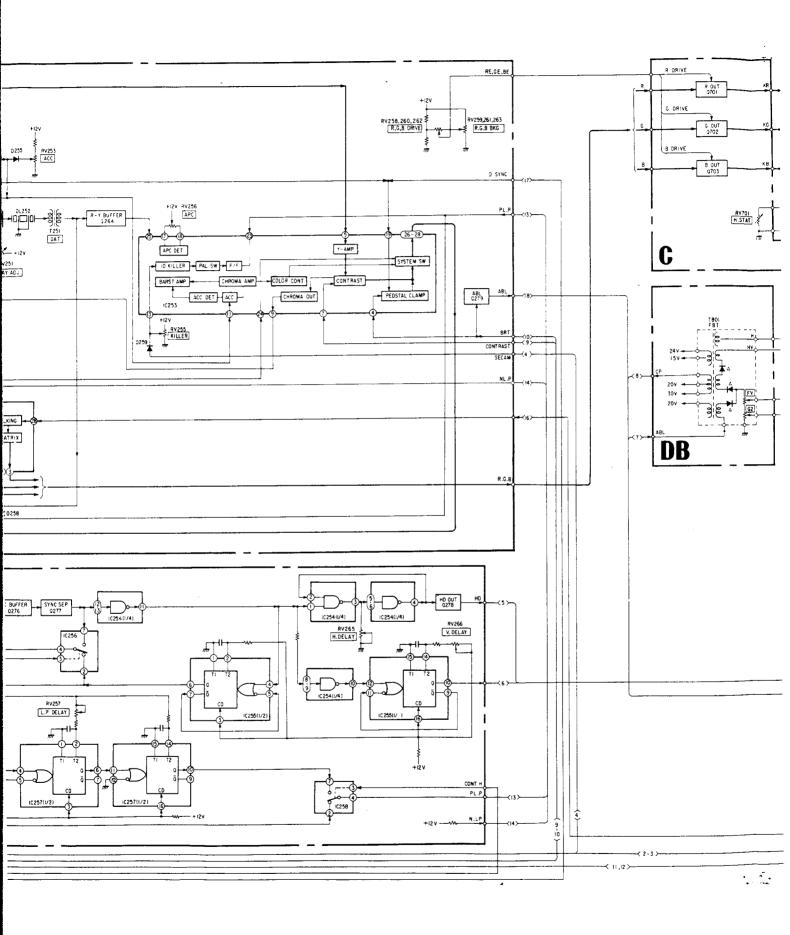


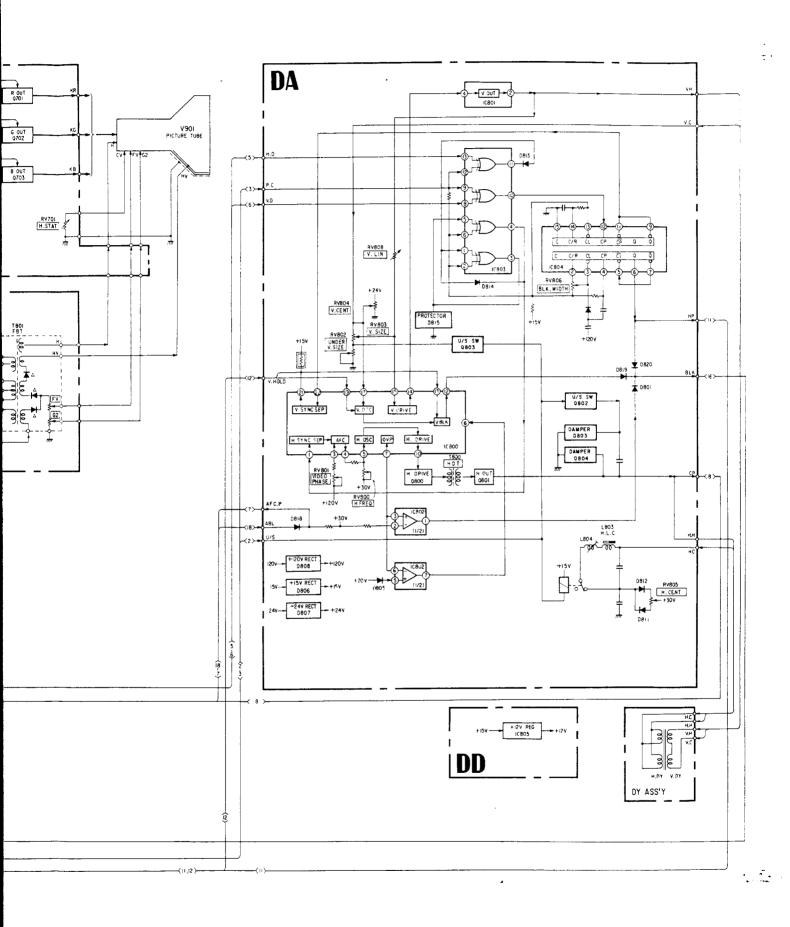


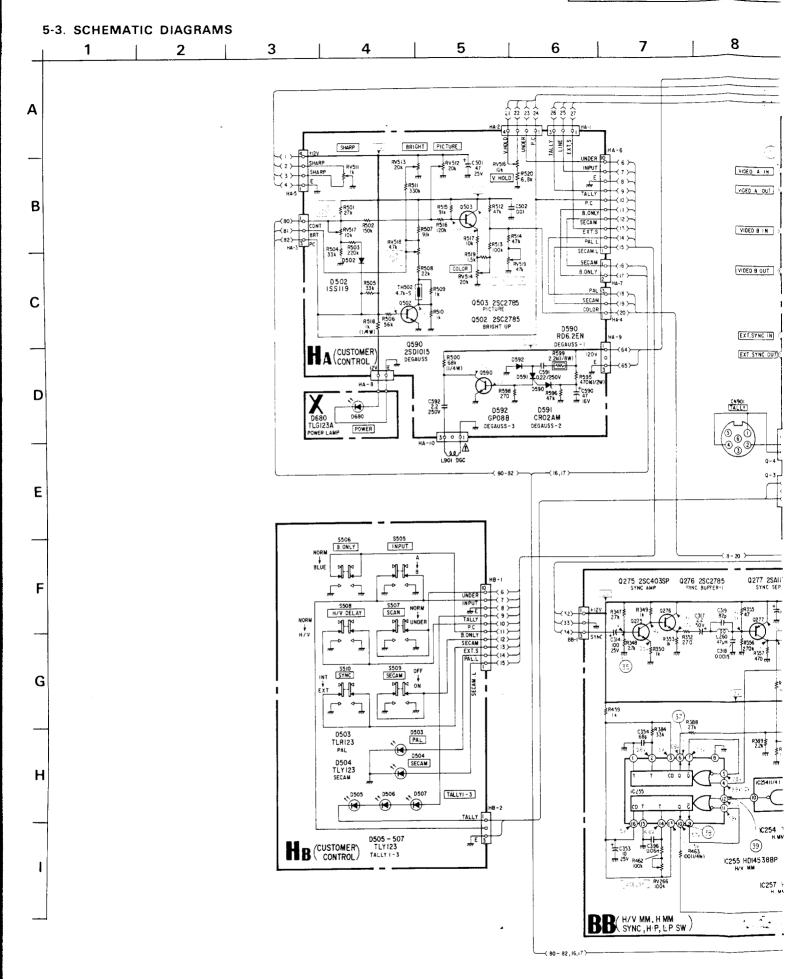


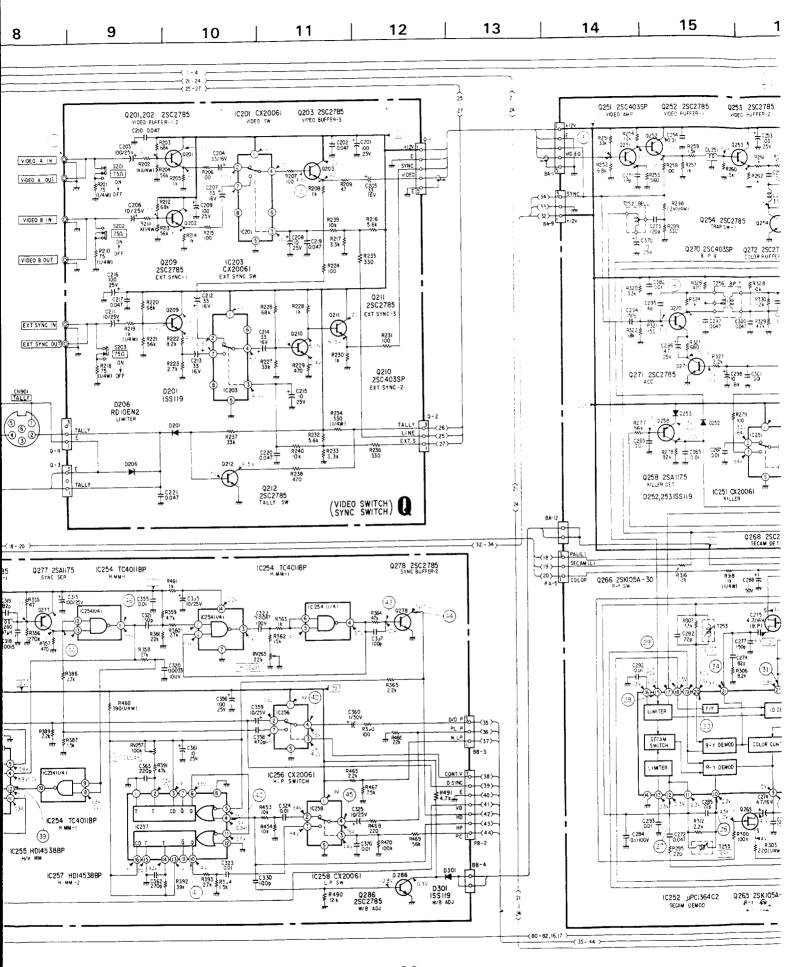
FB

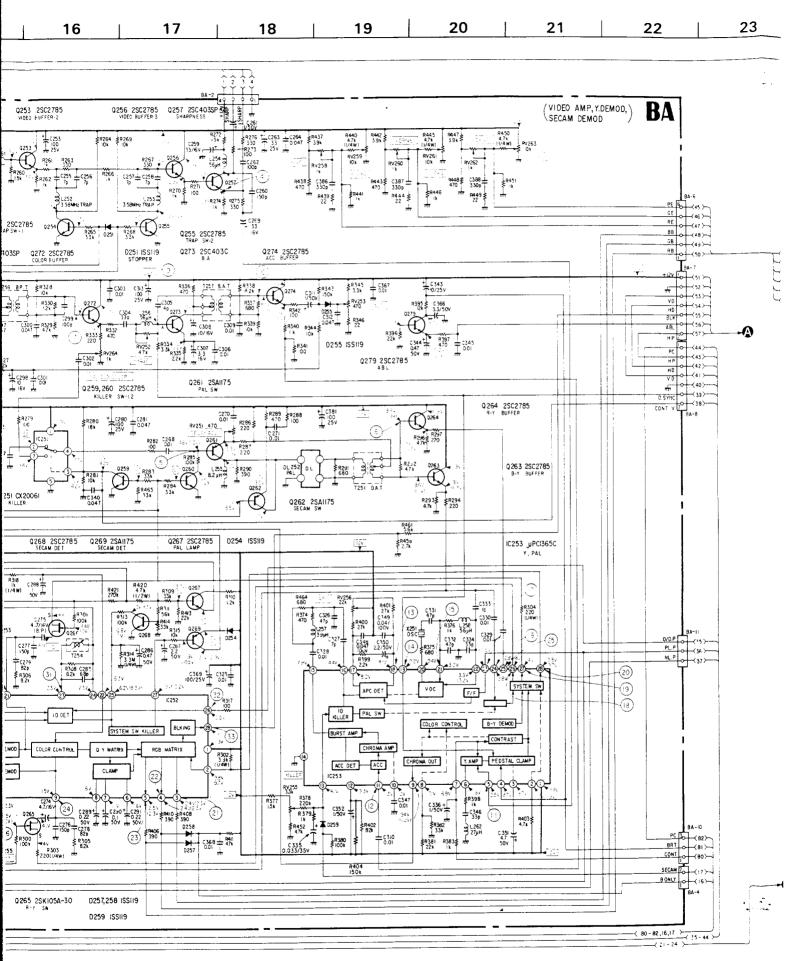








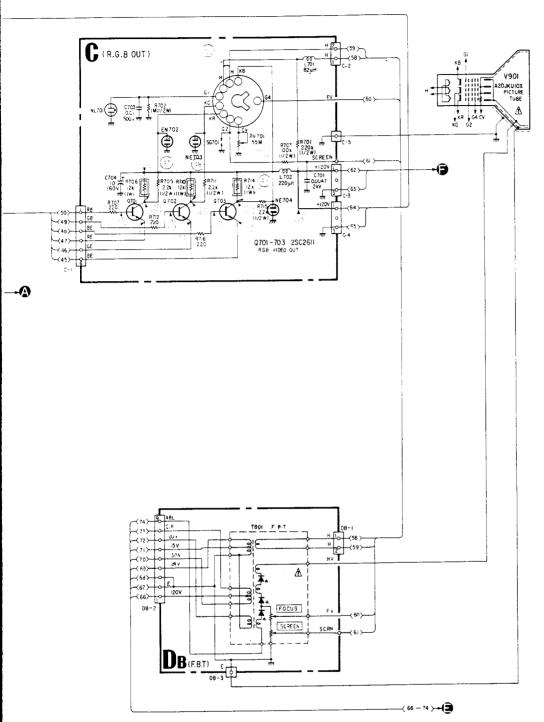




1 E

**-**(3)

23 24 25 26 27 28 29 30

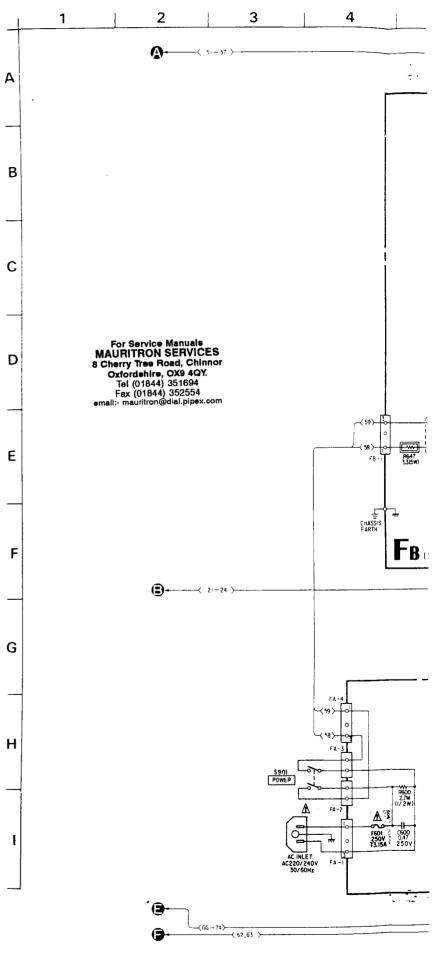


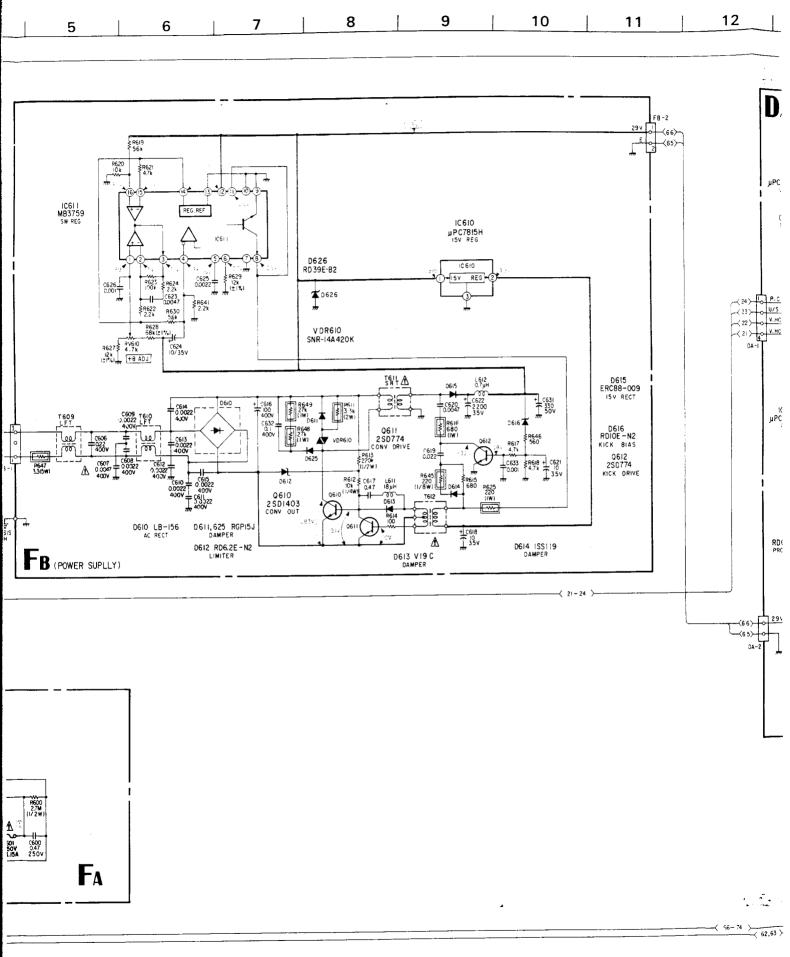
Note: The components identified by shading and mark

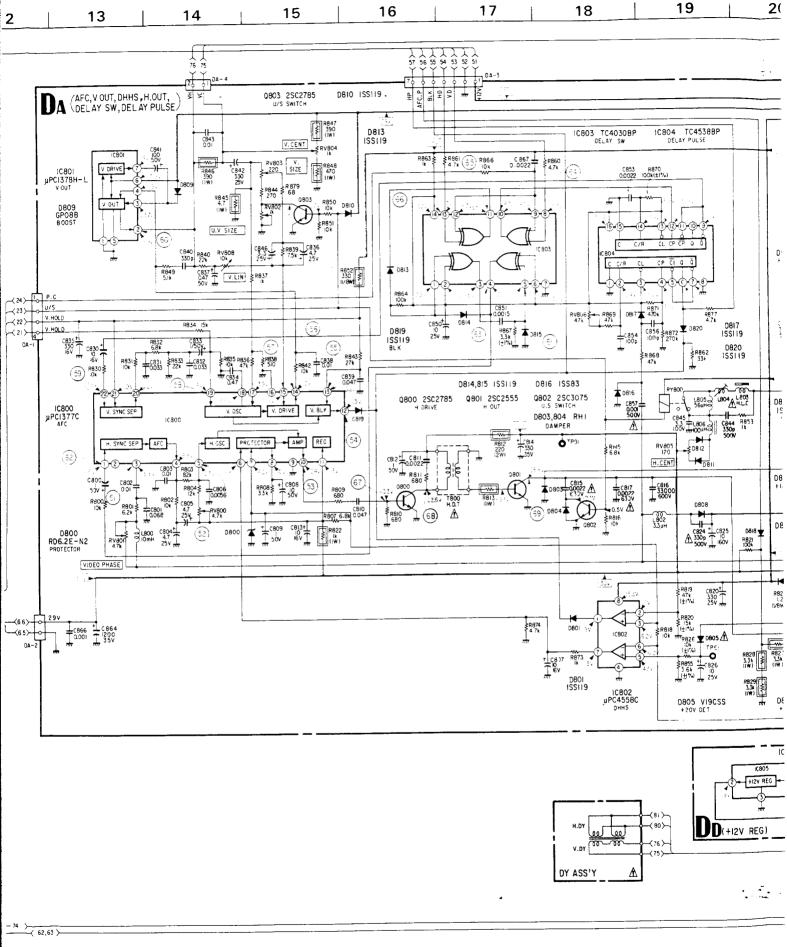
A are critical for safety. Replace only with part number specified.

#### Note:

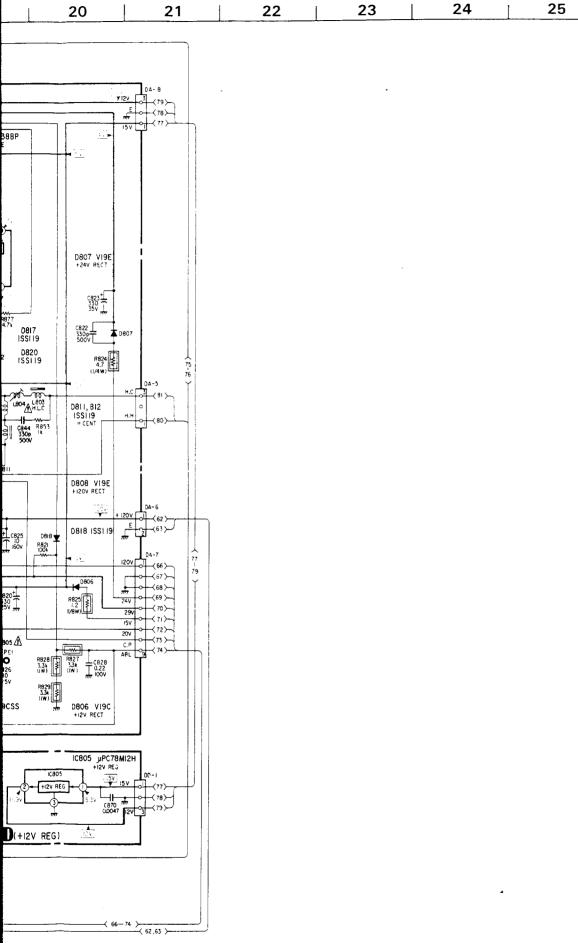
- All capacitors are in μF unless otherwise noted, p : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. k: 1000 $\Omega$ , M: 1000k $\Omega$
- Nonflammable resistor
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Fusible resistor
- \_ \_ : internal component.
- panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- $\bullet$  Readings are taken with a  $10 M\Omega$  digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- adjustment for repair.
- Readings are taken with a color-bar signal input.
  - no mark : with PAL color-bar signal received
  - ( ): with SECAM color-bar signal received.
- Circled numbers (  $\hat{1} = 69^{\circ}$ ) are waveform references refer to waveform on page 37, 38.
- ----: B + bus.
- — —: B bus.
- $\bullet \ \oplus \ :$  Selected to yield optimum performance.





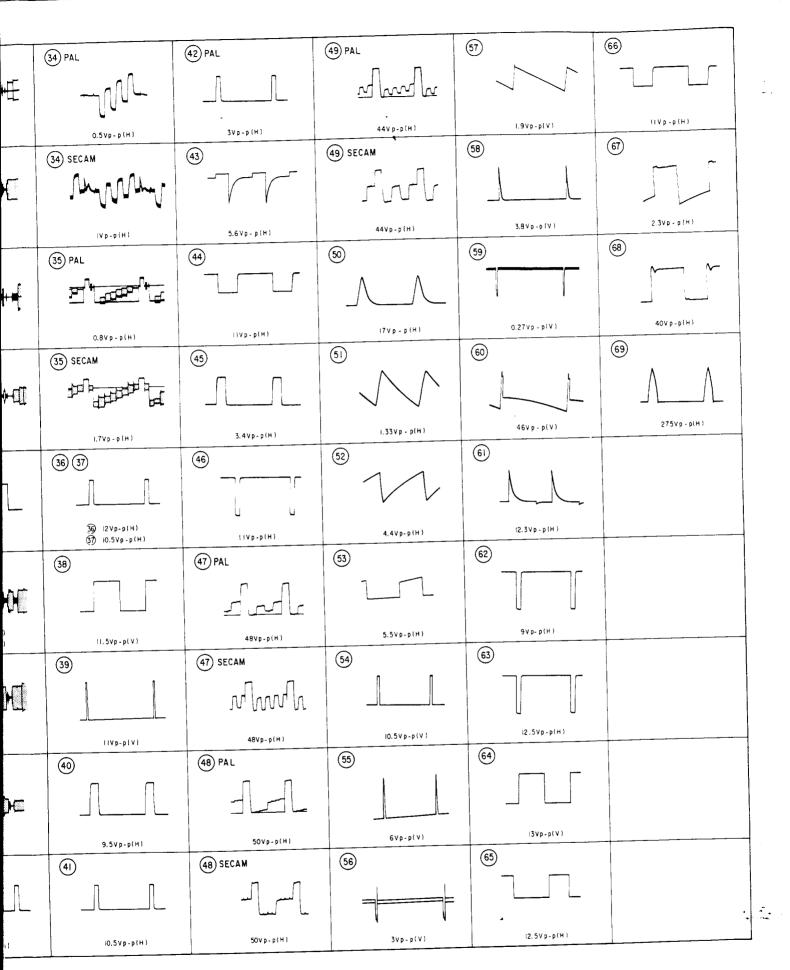


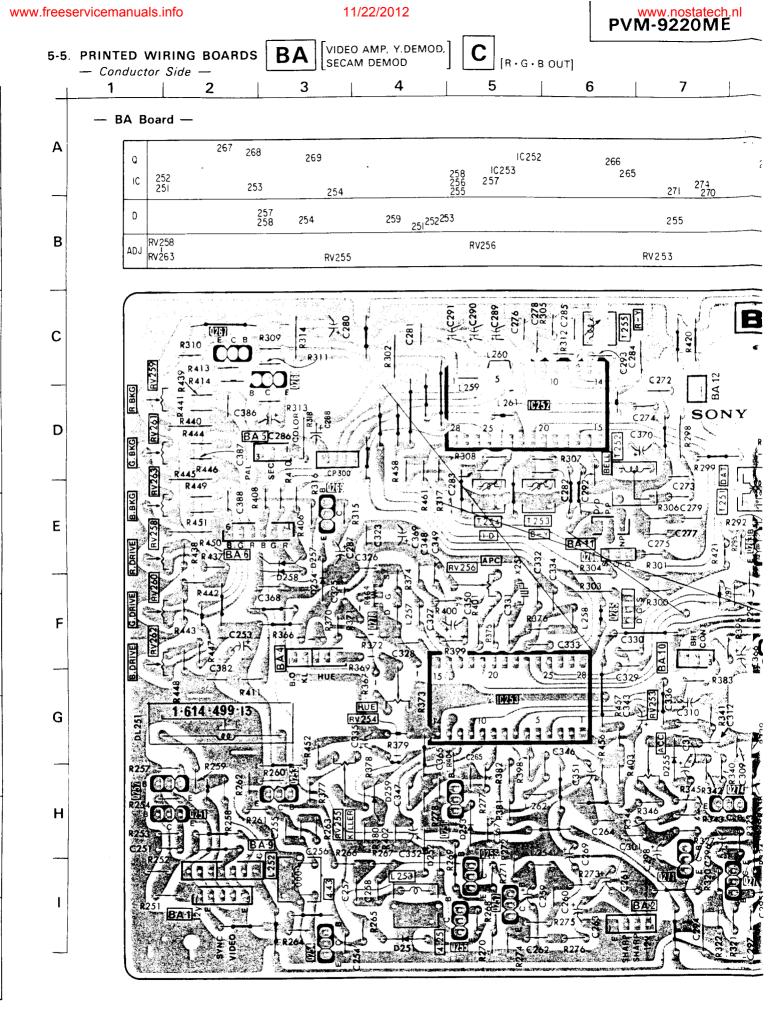
26



## 5-4. WAVEFORMS

(a) 2 (b) PAL (b) SECAM (c) PAL (c)				T		
© ABSTECHNIC STREET ST	(1) (2) (3) PAL	8 SECAM	(4) PAL	21 SECAM	26 PAL	34 PA
\$\frac{1}{2} \frac{1}{2} \fr	h de la	12441111244		4/400/4	<del>}</del>	- 
17   19   19   19   19   19   19   19	② 0.8Vp-p(H)	- 0.95Vp-p(H)	3.7Vp-p(H)	3.2Vp-p(H)	0.6Vp-p(H)	:
1279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279-2181   3279	1 2 3 SECAM	9 PAL	(15)	22 PAL	26 SECAM	34) SE
(a) 200 pp. (a) (b) 200 pp. (a) (c) 200 pp. (	THE THE PLANT		$\bigwedge \bigwedge \bigwedge$			
(a) PAL (b) PAL (c) P	① 1V p-p(H) ② 0.9Vp-p(H)	3.2Vp-p(H)	0.56Vp-p(4.38MHz)	3.2Vp-p(H)	0.7Vp -p(H)	
3,65 ye-pilnt						(35) PA
(4) SECAM (B) PAL (7) (3) PAL (2) PAL (2) PAL (3) SECAM (B) PAL (3) PAL						
3   10   10   10   10   10   10   10	0.65vp-p{H}	3.4Vp-p(H)	0.18 V p - p(H)	3.2Vp-p(H)	0.18Vp-p(H)	
3   10   10   10   10   10   10   10	4 SECAM	10 PAL	17	(23) PAL	(28) PAL	35 SE
(a) SECAM (b) SECAM (c) SE	مرا استسمرا	1	1		D-+-C)T(D-+-C[	<b></b>
0.2Vp.p[H]  6 PAL  1) PAL  1) PAL  1) SECAM  1) SECAM  2) SECAM  2) SECAM  3) SECAM  3) SECAM  3) SECAM  4) SECAM  4) SECAM  1) SECAM  2) SECAM  3) SECAM  4) SECAM  5) SECAM  5) SECAM  6) SECAM  6	0.7Vp-p(H)	8Vp-p(H)	3.1Vp - p(H)	3.2Vp-p(H)	0.12 V p -p (H )	
(a) PAL (b) PAL (c) P	5 PAL	(10) SECAM	(IB) PAL	23 SECAM	29	36 37
(a) PAL (b) PAL (c) P	1-4631-46	-	JAN TO JAN			_
(3) SECAM (2) PAL (3) SECAM (3) SECAM (3) SECAM (3) SECAM (3) SECAM (3) SECAM (4) (4) SECAM (5) PAL (7) PAL (8) PAL (9) SECAM (9) SECAM (10) SE	O.2Vp-p(H)	6 Vp-p(H)	0.46Vp-p[H}	3.2Vp - p(H)	3.2Vp - p(H)	(
0.14Vp-p(H)  0.56Vp-p(H)  0.56Vp-p(H)  0.4Vp-p(H)  (1) SECAM  (2) SECAM  (2) SECAM  (3) SECAM  (3) SECAM  (3) SECAM  (4)  (4) PAL  (5) O.7Vp-p(H)  (7) SECAM  (8) PAL  (9) PAL  (10) PAL  (10) PAL  (10) PAL  (10) SECAM  (10) SECAM  (10) PAL  (10) P	6 PAL	11 PAL	(19) PAL	(24) PAL	30 31 PAL	38)
(3) SECAM (4) SECAM (3) SECAM (4) SECAM (3) S	<del>≥0 ++ 0-2≥0 ++ 0-€</del>			- John Ja	340(	_
0.75 Vp-p(H)  0.75 Vp-p(H)  0.75 Vp-p(H)  0.85 Vp-p(H)  1 Vp-p(H)  1 Vp-p(H)  1 Vp-p(H)  0.85 Vp-p(H)  2.1 Vp-p(H)  2.1 Vp-p(H)  0.13 Vp-p(H)  0.88 Vp-p(H)  0.89 Vp-p(H)  3 PAL  3 SECAM  4 SECAM  3 SECAM  4 SECAM  4 SECAM  3 SECAM  4 SEC	0.14Vp-p(H)	0.65Vp-p(H)	0.56Vp-p(H)	0.4Vp-p(H)	30 0.7Vp-p(H) 31 0.6Vp-p(H)	
0.75 vp-p(H)  0.7vp-p(H)  2.1vp-p(H)  0.85 vp-p(H)  (2) PAL  (3) SECAM  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)  (40)	7 PAL	11 SECAM	(19) SECAM	24 SECAM	30 SECAM	39
7 SECAM (12) PAL (20) PAL (25) PAL (31) SECAM (40) (14) (15) PAL (15) PAL (16) PAL (17) PAL (17) PAL (18) PAL (19) PAL (25) SECAM (32) (33) (41) (40) (40) (40) (40) (40) (40) (40) (40	D-4-(III)-4-(I			44-17-44-1	HOUDE	
(Vp-p(H)	0.75 Vp-p (H)	0.7Vp-p(H)	2.1Vp-p(H)	0.85Vp-p(H)	IVp-p(H)	
O.33Vp-p(H)   O.33Vp-p(H)   O.33Vp-p(H)   O.8Vp-p(H)	7 SECAM	12 PAL	20 PAL	25 PAL	31) SECAM	40
(B) PAL (21) PAL (25) SECAM (32) (33) (41)	中山井中山	<del></del>		3 <del>-8 - ♦ (1-€33-8) - ♦ (1-€</del>		
(B) PAL (2) PAL (25) SECAM (32) (33) (4)	IVp-p(H)	0.33V p-p (H)	2.IVp-p(H)	0.13Vp-p(H)	0.8Vp-p(H)	
→		<del></del>			32 33	41)
32) 3Vp-p(H)	<del>}</del>			3423342		
	0.7vp-p(H)	0.38Vp-pIV)	3.2Vp-p(H)	<b>О.</b> ТVp-p(H)	32) 3Vp-p(H) 33) 3.7Vp-p(H)	

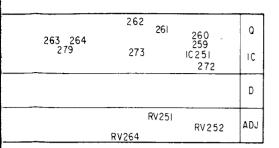


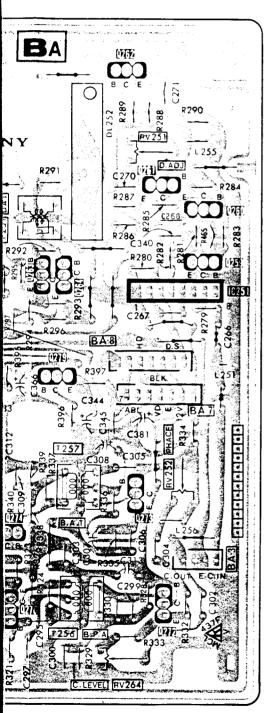


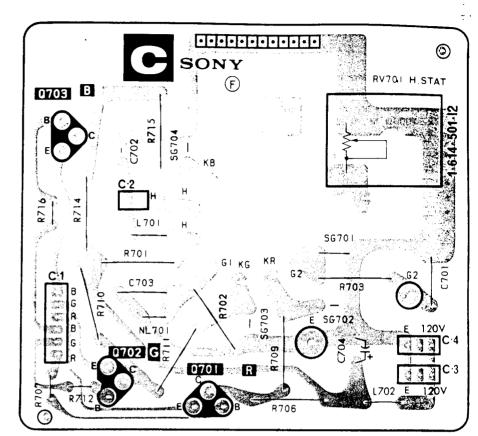


8 9 10 11 12 13 14 15

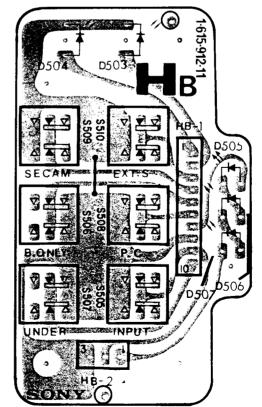
## — C Board —

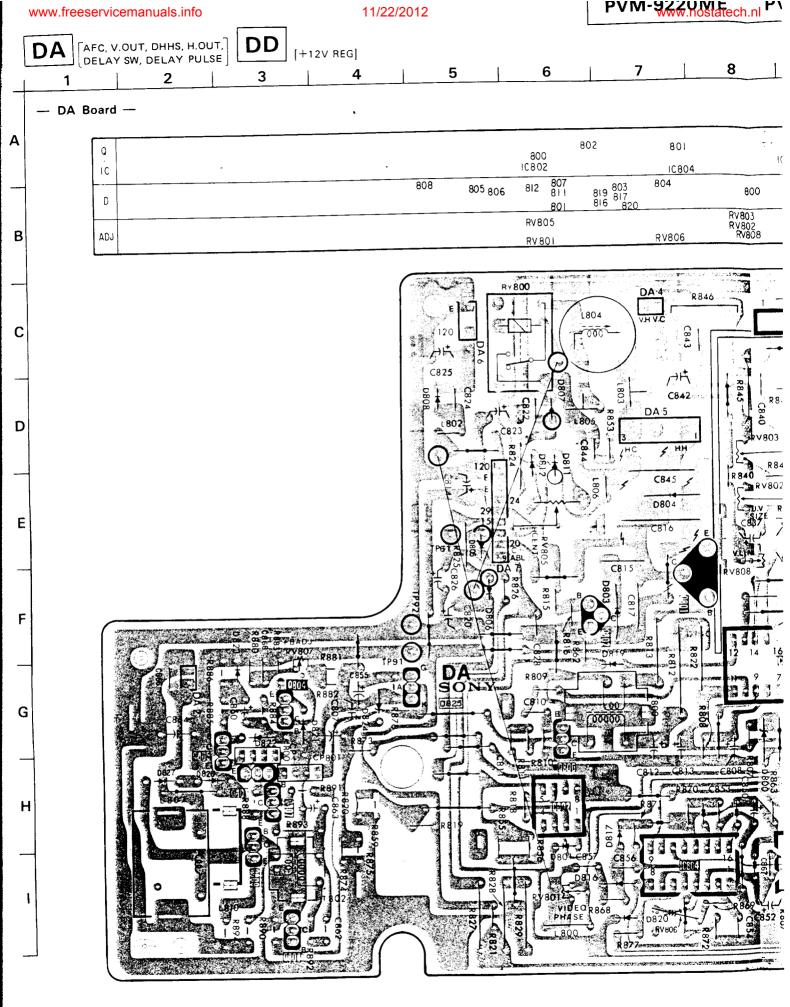






- HB Board -

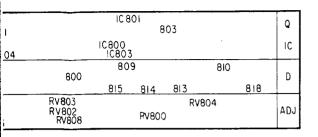


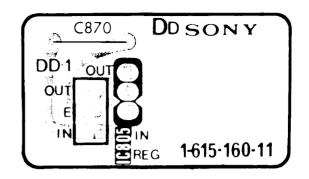


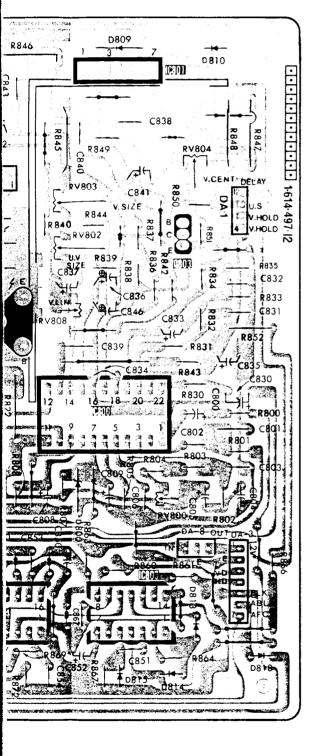
. . .

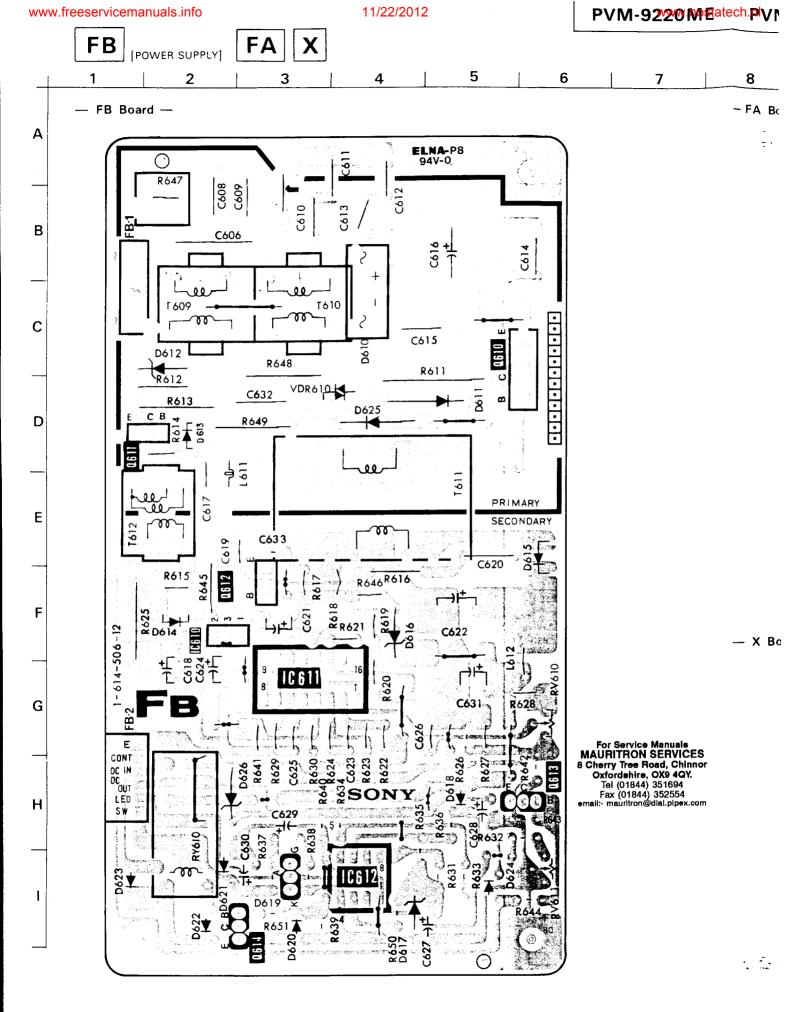
8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

- DD Board -



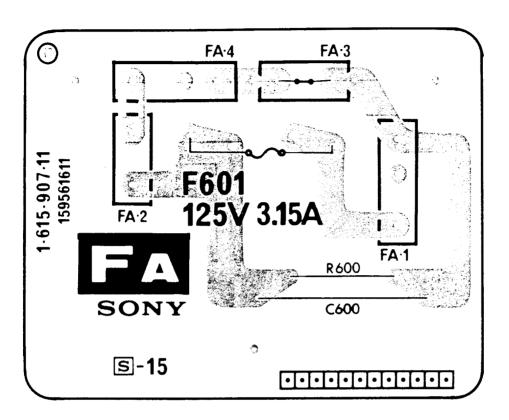




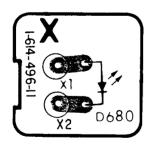


8 9 10 11 12 13 14 15

- FA Board -



— X Board —



Н

DB [F-B-T] HA [CUSTOMER]

1 2 3 4 5 6 7

- DB Board -

В

С

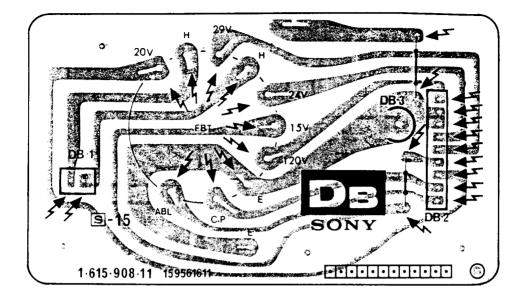
D

Ε

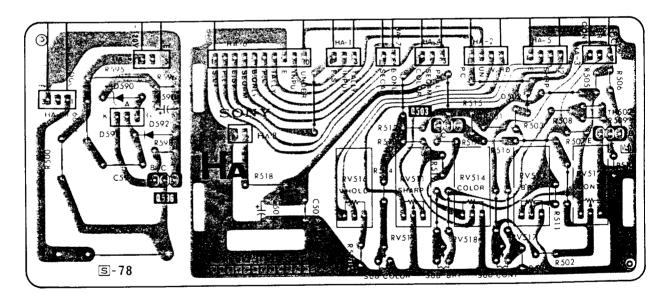
F

G

Н



– HA Board –



## 5-6. SEMICONDUCTORS





μPC1377C



2SA933S 2SC1740S



2SD1015



LB156



HD14011BP TC4011BP TC4030BP μPD4030BC



μPC1378H-P



2SC2456 2SC2611



2SK 105A



15583 1S1555 1\$2076

RDG15J



HD14538BP TC4538BP



μPC7815H



μPC78M12H

2SC2555



HZ6C2 RD39E-B2



TLG123A TLR123 **TLY123** 



MB3759-SNY



2SC3075



188119 188133 **1SS148** 



U05G



NJM4558D μPC4558C



2SC2458 2SC2603 2SC403SP

2SA 1048

2SA1115



2SD1403



CR02AM-8



V19C V19CSS V19E



μPC1364C μPC1365C



2SA1175 2SC2785



2SD774



GP08B RH1



GP08D RH1A

-47-

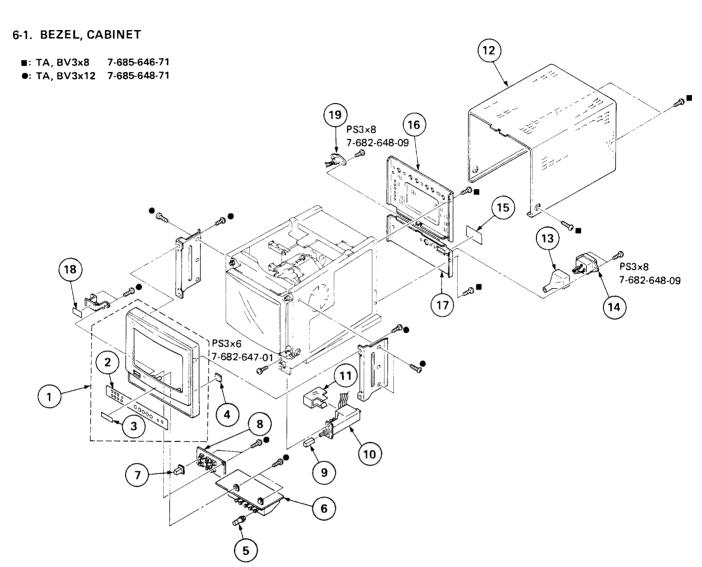
## **SECTION 6 EXPLODED VIEWS**

#### NOTE:

- · Items with no part number and no des-
- cription are not stocked because they are seldom required for routine service.

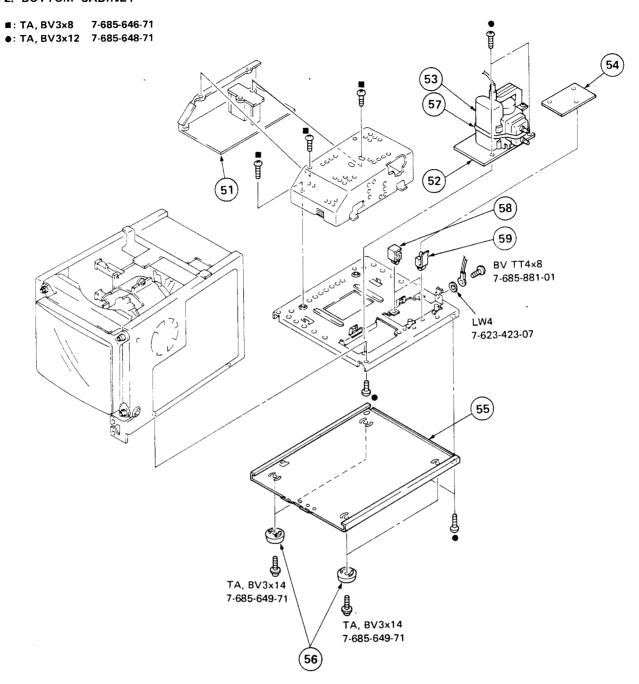
  The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark <u>A</u> are critical for safety.
Replace only with part number specified.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1 2 3 4 5 6 7 8 9	3-566-707-00 *1-614-496-11 4-374-820-01 *1-615-911-11 4-369-627-11 *1-615-912-11 4-374-839-01	LABEL, CONTROL EMBLEM, SONY X BOARD, KNOB, CONTROL HA BOARD, PUSH BUTTON HB BOARD,	2,3	15	*4-374-864-01 *4-601-466-11 <u>1-509-546-11</u> *4-374-869-01 *4-374-861-01 *4-374-852-01 4-374-859-01	LABEL, MODEL NUMBER (LARGE) PANEL, CONNECTOR	

#### 6-2. BOTTOM CABINET

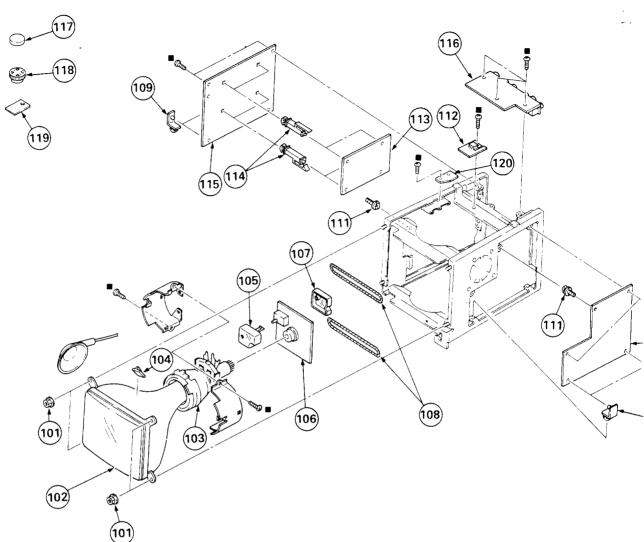


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
<b>53</b> . 54	*1-615-908-11 A .1-439-358-11 *1-615-907-11	TRANSFORMER ASSY , FLYBACK		56   57   58   59	3-701-903-01	FOOT TAPE, COPPER FOIL HOLDER, PC BOARD HOLDER, PC BOARD	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

## 6-3. CHASSIS

■: TA, BV3x8 7-685-646-71



No.	Part No.	Description	Remark	No.	Part No.	Description	F
103 104 105 106 107 108 109	⚠.8-737-151-05 ⚠.1-451-265-11 4-309-369-00 *4-374-822-01 *A-1330-584-A *4-374-806-01 ⚠.1-426-043-12 *3-701-832-00	CRT (A2OJKU10X) DEFLECTION YOKE (SY-167) SPACER, DEFLECTION YOKE COVER (A), CONTROL C BOARD, COMPLETE COVER (B), CONTROL COIL, DEGAUSSING HINGE, CIRCUIT BOARD		112 113 114 115 116 117 118 119	*3-657-516-00 *A-1135-323-A *A-1270-161-A 1-452-032-00 1-452-094-00 1-452-126-11	DD BOARD BB BOARD, COMPLETE SUPPORT, PC BOARD BA BOARD, COMPLETE Q BOARD, COMPLETE MAGNET, DISK; 10MM ø MAGNET, ROTATABLE DISK; 15MM ø MAGNET	
110	*A-1345-555-A	DA BOARD, COMPLETE	1	120	4-374-868-01	INSULATOR (DD)	

The components identify by shading and mark A critical for safety. Replace only with panumber specified.

## SECTION 7 **ELECTRICAL PARTS LIST**

BB

NOTE:

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

 Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless • MF :  $\mu$ F, PF :  $\mu\mu$ F otherwise noted.

RESISTORS • All resistors are in ohms • MMH : mH, UH : μΗ

COILS

• F : nonflammable

Ref.No	. Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
	*A-1135-296-A  CON  *1-564-354-00  *1-564-443-11  *1-564-353-00	BB BOARD, CO	MPLETE *****			Q276   Q277   Q278	8-729-245-83	TRANSISTOR 2	SA1048G	R		
	CON	NECTOR				Q286 	8-729-245-83	TRANSISTOR 2	SC2458			
BB1	*1-564-354-00	PLUG, CONNEC	TOR (2.5MM)	3P			RES	ISTOR				
882 883 884	*1-564-443-11 *1-564-354-21 *1-564-353-00	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	3P 2P		R347		CARBON	27K 2.7K	5%	1/6W 1/6W	
	CAP	ACITOR				1 8320	1-247-831-00	CARBON CARBON	1K 1K	5% 5%	1/6W 1/6W	
C314	1-123-333-00	ELECT	100 <b>M</b> F	20%	25V	R352 	1-247-817-00	CARBON	270	5%	1/6W	
C315 C317 C318 C319	1-123-333-00 1-123-381-00 1-102-119-00 1-102-971-00	ELECT CERAMIC	100MF 2.2MF 0.0015MF 82PF	20% 20% 10% 5%	25V 50V 50V 50V	R353 R355 R356 R357 R358	1-247-831-00 1-247-871-00 1-247-889-00 1-247-823-00 1-247-865-00	CARBON CARBON CARBON CARBON CARBON	1K 47K 270K 470 27K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
C 320	1-106-184-00		0.0033MF	10%	100V	Ì						
C321 C322 C323 C324	1-101-361-00 1-106-188-00 1-102-129-00 1-102-129-00	MYLAR	150PF 0.0047MF 0.01MF 0.01MF	5% 10% 10% 10%	50V 100V 50V 50V	R359   R360   R361   R362   R363	1-247-847-00 1-247-841-00 1-247-863-00 1-247-859-00 1-247-831-00	CARBON CARBON	4.7K 2.7K 22K 15K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
C325 C326 C330 C353 C354	1-123-329-51 1-102-129-00 1-102-973-00 1-123-329-51 1-101-888-00	CERAMIC CERAMIC ELECT	10MF 0.01MF 100PF 10MF 68PF	20% 10% 5% 20% 5%	25V 50V 50V 25V 50V	   R364   R365   R384   R386	1-247-871-00 1-249-421-11 1-247-867-00	CARBON CARBON	47K 2.2K 33K 2.7K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
			0.01MF	10%	50V	R387	1-247-835-00	CARBON	1.5K	5%	1/6W	
C355 C356 C358 C359 C360	1-102-129-00 1-123-333-00 1-102-824-00 1-123-329-51 1-123-380-00	ELECT CERAMIC ELECT	100MF 470PF 10MF 1MF	20% 5% 20% 20%	25V 50V 25V 50V	R388 R389 R390 R391 R392	1-247-841-00 1-249-421-11 1-247-807-00 1-247-871-00 1-247-869-00	CARBON CARBON CARBON	2.7K 2.2K 100 47K 39K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
C361 C362 C363 C395 C396	1-123-329-51 1-102-980-00 1-102-978-00 1-123-329-51 1-108-599-00	CERAMIC CERAMIC ELECT	10MF 270PF 220PF 10MF 0.068MF	20% 5% 5% 20% 5%	25V 50V 50V 25V 50V	R393   R394   R453   R454   R459	1-247-841-00 1-247-835-00 1-249-429-11	CARBON	2.7K 1.5K 10K 10K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
C397	1-102-973-00	CERAMIC	100PF	5%	50 <b>V</b>	   R460	1-246-463-25	CADRON	390	5%	1/4W	
D301	<u>DIO</u> 8-719-911-19					R461   R462   R463   R465	1-247-831-00	CARBON CARBON CARBON CARBON	1K 100K 100 2.2K	5%	1/6W 1/6W 1/4W 1/6W	
	<u>IC</u>					   R466	1-247-863-00	CARBON	22K	5%	1/6W	
IC 255 IC 256 IC 257	8-759-240-11 8-759-345-38 8-750-000-74 8-759-345-38 8-750-000-74	IC HD14538BP IC CX20061 IC HD14538BP				R467 R468 R469 R470	1-247-852-00 1-247-815-00	CARBON	7.5K 220 56K 100K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
10250	COI					R490 R491	1-247-857-00 1-247-847-00		12K 4.7K	5% 5%	1/6W 1/6W	
L 260	1-408-417-00	MICRO INDUCT	OR 47UH			 	VAR	IABLE RESISTO	<u>R</u>			
		NSISTOR				   RV257	1-226-775-00	RES, ADJ, ME	TAL GLA	ZE 100	κ	<u>-</u>
Q275	8-729-603-30	TRANSISTOR 2	SC403SP-3			RV265   RV266	1-226-773-00 1-226-77 <b>5</b> -00	RES, ADJ, ME	TAL GLA	ZE 100	K	



BA

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
*,	A-1135-323-A	BA BOARD, CO				C288 C289 C290	1-123-380-00 1-123-608-00 1-123-607-00	ELECT ELECT ELECT	1MF 0.22MF 0.1MF	20% 20% 20%	50V 50V 50V
	CON	NECTOR				C291	1-123-608-00 1-102-129-00	ELECT CERAMIC	0.22MF 0.01MF	20% 10%	50V 50V
BA 2 * BA 4 * BA 5 * BA 6 *	1 -564 -441 -11 1 -564 -440 -11 1 -564 -353 -00 1 -564 -354 -00 1 -564 -442 -11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	4P 2P 3P 6P		C293   C294   C295   C296   C297	1-102-129-00 1-161-313-00		0.01MF 150PF 4PF 47MF 0.047MF	10% 10% 0.5PF 20%	50V 50V 50V 25V 50V
BA8 * BA9 * BA10 * BA11 *	1-564-443-11 1-564-443-11 1-564-354-00 1-564-354-00 1-564-354-21	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)			C298   C299   C300   C301   C302		ELECT CERAMIC CERAMIC CERAMIC CERAMIC	10MF 100PF 0.047MF 0.01MF 0.01MF	20 <b>%</b> 5 <b>%</b>	16V 50V 50V 50V 50V
BA12 *	1-564-353-00	PLUG, CONNEC	TOR (2.5MM)	2P		C303	1-101-004-00	CERAMIC	0.01MF		50V
C 253	1-102-953-00 1-123-333-00	ELECT	18PF 100MF	5% 20%	50V 25V	C304   C305   C306   C307	1-102-965-00 1-102-937-00 1-102-129-00 1-131-368-00	CERAMIC CERAMIC CERAMIC TANTALUM	39PF 4PF 0.01MF 3.3MF	5% 0.5PF 10% 10%	50V 50V 50V 16V
C 255 C 256	1-102-662-00 1-102-662-00	CERAMIC CERAMIC CERAMIC	0.01MF 7PF 7PF	0.5PF 0.5PF	50V 50V 50V	C308 C309 C310		CERAMIC	10MF 0.01MF 0.01MF	20% 10% 10% 20%	16V 50V 50V
C 258 C 259		CERAMIC CERAMIC ELECT CERAMIC	7PF 7PF 33MF 150PF	0.5PF 0.5PF 20% 5%	50V 50V 16V 50V	C311   C312     C313	1-123-380-00 1-101-006-21 1-123-333-00	ELECT CERAMIC ELECT	1MF 0.047MF 100MF	20%	50V 50V 25V
C 261	1-123-380-00	ELECT	1MF	20%	50 <b>v</b>	C323 C326	1-102-129-00 1-101-880-00	CERAMIC CERAMIC	0.01MF 47PF	10% 5%	50V 50V
C 263	1-102-973-00 1-123-819-00 1-101-006-21	CERAMIC ELECT CERAMIC	100PF 33MF 0.047MF	5 <b>%</b> 20 <b>%</b>	50V 25V 50V	C327   C328 	1-102-944-00 1-102-129-00	CERAMIC CERAMIC	7PF 0.01MF	0.5PF 10%	50V 50V
	1-101-004-00 1-101-004-00	CERAMIC CERAMIC	0.01MF 0.01MF		50 <b>v</b> 50 <b>v</b>	C329 C330 C331	1-102-129-00 1-102-129-00 1-101-880-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 47PF	10% 10% 5%	50V 50V 50V
C 269	1-101-004-00 1-123-318-00 1-102-129-00	CERAMIC ELECT CERAMIC	0.01MF 33MF 0.01MF	20% 10%	50V 16V 50V	C332   C333 	1-101-880-00 1-102-938-00	CERAMIC CERAMIC	47PF 1PF	5% 0.5PF	50V 50V
	1-102-129-00 1-101-006-21	CERAMIC CERAMIC	0.01MF 0.047MF	10%	50V 50V	C334 C335 C336	1-102-963-00 1-131-399-00 1-123-380-00	CERAMIC TANTALUM ELECT	33PF 0.033MF 1MF	5% 20% 20%	50V 35V 50V
C274	1-102-679-00 1-121-257-00 1-121-257-00	CERAMIC ELECT ELECT	120PF 4.7MF 4.7MF	5 <b>%</b>	50V 16V 16V	C340 C343	1-101-006-21 1-123-329-51	CERAMIC ELECT	0.047MF 10MF	20%	50V 25V
C276	1-101-361-00 1-101-361-00	CERAMIC CERAMIC	150PF 150PF	5% 5%	50V 50V	C344 C345 C346	1-123-379-00 1-102-129-00 1-102-963-00	ELECT CERAMIC CERAMIC	0.47MF 0.01MF 33PF	20% 10% 5%	50V 50V 50V
C279	1-102-971-00 1-102-971-00 1-123-333-00	CERAMIC CERAMIC ELECT	82PF 82PF 100MF	5% 5% 20%	50V 50V 25V	C347 C348	1-102-129-00		0.01MF 0.047MF	10% 10%	50V 100V
C281 :	1-101-006-21 1-102-892-00	CERAMIC CERAMIC	0.047MF 22PF	5%	50V 50V	C349 C350 C351	1-106-212-00 1-123-381-00 1-123-369-00	MYLAR ELECT ELECT	0.047MF 2.2MF 4.7MF	10% 20% 20%	100V 50V 50V
C284	1-102-676-00 1-106-220-00 1-102-892-00	CERAMIC MYLAR CERAMIC	68PF 0.1MF 22PF	5% 10% 5%	50V 100V 50V	C352   C365	1-123-380-00 1-102-129-00	ELECT CERAMIC	1MF 0.01MF	20% 10%	50V 50V
C286	1-123-379-00 1-123-381-00	ELECT ELECT	0.47MF 2.2MF	20% 20%	50V 50V	C366 C367 C368	1-123-382-00 1-101-004-00 1-102-129-00	ELECT CERAMIC CERAMIC	3.3MF 0.01MF 0.01MF	20% 10%	50V 50V 50V

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

BA

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			_	Remark
C369 C370 C381 C382 C386	1-123-333-00 1-123-329-51 1-123-333-00 1-102-129-00 1-102-820-00	ELECT ELECT	100MF 10MF 100MF 0.01MF 330PF	20% 20% 20% 10% 5%	25 V 25 V 25 V 50 V 50 V	Q266   Q267   Q268   Q269   Q270	8-729-245-83 8-729-245-83 8-729-204-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC 2458 SC 2458 SA 10486	iR		
C387 C388	1-102-820-00 1-102-820-00	CERAMIC	330PF 330PF	5% 5%	50 <b>V</b> 50 <b>V</b>	   Q271   Q272   Q273	8-729-245-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	C2458			
	<u>010</u>	<u>DE</u>				Q274 Q279		TRANSISTOR 25	C2458	-3		
D251 D252 D253	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119						ISTOR				
D25 <b>4</b> D25 <b>5</b>	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R251   R252   R253	1-247-867-00 1-247-851-00 1-247-825-00	CARBON	33K 6.8K 560	5% 5% 5%	1/6W 1/6W 1/6W	
025 <i>7</i> 0258 0259	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				R254 R257	1-247-833-00 1-247-831-00	CARBON CARBON	1.2K 1K		1/6W 1/6W	
	DEL	AY LINE				R258	1-247-807-00	CARBON	100 1.5K	5% 5%	1/6W 1/6W	
	1-415-330-00 1-415-122-31	DELAY LINE, DELAY LINE,	Y 1H (PAL)			R260 R261 R262	1-247-835-00 1-247-831-00 1-247-831-00	CARBON	1.5K 1K 1K	5% 5% 5%	1/6W 1/6W 1/6W	
	<u>IC</u>					R263 R264	1-247-819-00 1-249-429-11		330 10K	5% 5%	1/6W 1/6W	
IC 251 IC 252 IC 253	8-750-006-10 8-759-100-15 8-759-113-65	IC CX20061 IC UPC1364C2 IC UPC1365C			,	R265 R266 R267	1-247-867-00 1-247-831-00 1-247-819-00	CARBON CARBON	33K 1K 330	5% 5% 5%	1/6W 1/6W 1/6W	
	<u>C01</u>	<u>L</u>				R268 R269	1-247-867-00 1-249-429-11		33K 10K	5 <b>%</b>	1/6W	
L 252 L 253 L 254 L 255	1-415-122-31  IC  8-750-006-10  8-759-100-15  8-759-113-65  COII  1-409-193-00  1-408-418-00  1-408-418-00  1-408-418-00  1-408-416-00  1-408-414-00  TRAI  8-729-603-30  8-729-245-83  8-729-245-83  8-729-245-83  8-729-245-83	COIL 3.58MHZ COIL 3.58MHZ MICRO INDUCT MICRO INDUCT	TRAP TRAP OR 56UH OR 8.2UH			R270 R271 R272	1-247-831-00 1-247-807-00 1-247-835-00	CARBON CARBON	1K 100 1.5K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
L 256	1-408-418-00	MICRO INDUCT	OR 56UH		ĺ	R273 R274	1-247-807-00 1-247-831-00	CARBON	100 1K	5% 5%	1/6W 1/6W	
L 257 L 258 L 262	1-408-416-00 1-408-406-00 1-408-414-00	MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO	OR 39UH OR 5.6UH OR 27UH			R275 R276 R277	1-247-819-00 1-247-819-00 1-247-873-00	CARBON	330 330 56K	5% 5% 5%	1/6W 1/6W 1/6W	
	TRAI	NSISTOR				R278	1-247-877-00		82K	5%	1/6W	
Q251	8-729-603-30	TRANSISTOR 2	SC403SP-3			R279 R280	1-247-807-00	CARBON	100 18K	5% 5%	1/6W 1/6W	
Q252 Q253 Q254 Q255	8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC 2458 SC 2458 SC 2458			R281 R282 R283	1-249-429-11 1-247-807-00 1-247-867-00	CARBON	10K 100	5% 5% 5%	1/6W 1/6W 1/6W	
0256	0-729-243-03	TRANSISTOR 2	50.2450		ļ	R284	1-247-867-00		33K 33K 100K	5% 5%	1/6W 1/6W	
Q256 Q257 Q258 Q259	8-729-245-83 8-729-603-30 8-729-204-83 8-729-245-83	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC 403SP - 3 SA 1048GR		1	R285 R286 R287	1-247-815-00 1-247-815-00	CARBON CARBON	220 220	5% 5%	1/6W 1/6W	
0260	8-729-245-83	TRANSISTOR 2	SC2458			R288 R289	1-247-807-00 1-247-823-00	CARBON CARBON	100 470	5% 5%	1/6W 1/6W	
Q261 Q262 Q263	8-729-204-83 8-729-204-83 8-729-245-83	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1048GR			R290 R291 R292	1-247-821-00 1-247-827-00 1-247-847-00	CARBON CARBON CARBON	390 680 4.7K	5% 5% 5%	1/6W 1/6W 1/6W	
0264 0265	8-729-245-83 8-729-115-30	TRANSISTOR 2: TRANSISTOR 2:	SC 2458		İ	R293	1-247-847-00		4.7K		1/6W	

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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
R294 1-247-815-00 R295 1-247-815-00 R296 1-247-847-00 R297 1-247-815-00 R298 1-247-133-00	CARBON CARBON CARBON CARBON CARBON	220 5 4.7K 5 220 5	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/4W		R377   R378   R379   R380   R381	1-247-835-00 1-247-887-00 1-247-831-00 1-247-879-00 1-247-863-00	CARBON CARBON CARBON CARBON CARBON	1.5K 220K 1K 100K 22K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R299 1-247-819-00 R300 1-247-879-00 R301 1-247-879-00 R302 1-247-145-00 R303 1-247-704-11	CARBON CARBON CARBON CARBON CARBON	100K 5 100K 5 3.9K 5	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/4W 5% 1/4W		R382   R383   R395   R396   R397	1-247-867-00 1-247-831-00 1-247-857-00 1-247-863-00 1-247-823-00	CAR BON CAR BON CAR BON CAR BON CAR BON	33K 1K 12K 22K 470	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R304 1-247-704-11 R305 1-247-853-00 R306 1-247-853-00 R307 1-247-843-00 R308 1-247-853-00	CARBON CARBON CARBON CARBON CARBON	8.2K 5 8.2K 5 3.3K 5	5% 1/4W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R398   R399   R400   R401   R402	1-247-831-00 1-249-421-11 1-247-865-00 1-247-865-00 1-247-877-00	CAR BON CAR BON CAR BON CAR BON CAR BON	1K 2.2K 27K 27K 82K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R309 1-247-867-00 R310 1-247-833-00 R311 1-247-873-00 R312 1-249-421-11 R313 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	1.2K 5 56K 5 2.2K 5	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R403   R404   R406   R408   R410	1-247-847-00 1-247-883-00 1-247-821-00 1-247-821-00 1-247-821-00	CARBON CARBON CARBON CARBON CARBON	4.7K 150K 390 390 390	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R314 1-210-825-00 R315 1-249-429-11 R316 1-247-833-00 R317 1-247-807-00 R318 1-247-713-11	SOL ID CARBON CARBON CARBON CARBON	10K 5 1.2K 5 100 5	5% 1/4W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/4W		R411 R413 R414 R420 R421	1-247-871-00 1-247-863-00 1-247-867-00 1-247-171-00 1-247-889-00	CARBON CARBON CARBON CARBON CARBON	47K 22K 33K 47K 270K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R320 1-247-843-00 R321 1-247-811-00 R322 1-247-837-00 R323 1-247-827-00 R324 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	150 5 1.8K 5 680 5	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R437 R438 R439 R440 R441	1-247-845-00 1-247-823-00 1-247-791-00 1-247-721-11 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	3.9K 470 22 4.7K 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R326 1-247-823-00 R327 1-249-421-11 R328 1-249-429-11 R329 1-247-847-00 R330 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	2.2K 5 10K 5 4.7K 5	1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R442 R443 R444 R445 R446	1-247-845-00 1-247-823-00 1-247-791-00 1-247-721-11 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	3.9K 470 22 4.7K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R332 1-247-823-00 R333 1-247-815-00 R334 1-247-843-00 R335 1-249-421-11 R336 1-247-823-00	CARBON CARBON CARBON CARBON CARBON	220 5 3.3K 5 2.2K 5	1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R447 R448 R449 R450 R451	1-247-845-00 1-247-823-00 1-247-791-00 1-247-721-11 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	3.9K 470 22 4.7K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R337 1-247-827-00 R338 1-247-853-00 R339 1-249-429-11 R340 1-247-831-00 R341 1-247-807-00	CARBON CARBON CARBON CARBON CARBON	8.2K 5 10K 5 1K 5	1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R452 R458 R461 R464 R465	1-247-847-00 1-247-841-00 1-247-849-00 1-247-827-00 1-247-867-00	CARBON CARBON CARBON CARBON CARBON	4.7K 2.7K 5.6K 680 33K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R342 1-247-807-00 R343 1-247-883-00 R344 1-249-429-11 R345 1-247-843-00 R346 1-247-791-00	CARBON CARBON CARBON CARBON CARBON	150K 5 10K 5 3.3K 5	1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		RV252 RV253	VAR 1-228-719-00 1-228-723-00 1-228-719-00 1-228-722-00	RES, ADJ, CE RES, ADJ, CE RES, ADJ, CE RES, ADJ, CE RES, ADJ, CE	 ERAMIC CA ERAMIC CA ERAMIC CA	ARBON ARBON	4.7K 470	
R374 1-247-823-00 R375 1-247-827-00 R376 1-247-831-00	CARBON CARBON CARBON	680 5	5% 1/6W 5% 1/6W 5% 1/6W		RV256 	1-228-725-00	RES, ADJ, CE	ERAMIC CA	ARBON		

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Ref.No. Part No.	Description	Remark	Ref.No	. Part No.	Description			Remark
RV259 1-224-493-00 RV260 1-224-660-00 RV261 1-224-493-00 RV262 1-224-660-00 RV263 1-224-493-00	RES, ADJ, METAL FILM 10K RES, ADJ, METAL FILM 1K		C609 A C610 A C611 A	\$\langle 1.1-161-742-51\$ \$\langle 1.1-161-742-51\$ \$\langle 1.1-161-742-51\$ \$\langle 1.1-161-742-51\$	CERAMIC CERAMIC CERAMIC	0.0022MF 0.0022MF 0.0022MF 0.0022MF 0.0022MF	20% 20% 20% 20% 20%	400V 400V 400V 400V 400V
	RES, ADJ, CERAMIC CARBON 1K		C614 /   C615 /	A. 1-161-742-51 A. 1-161-742-51 A. 1-161-742-51	CERAMIC CERAMIC	0.0022MF 0.0022MF 0.0022MF 100MF	20% 20% 20% 20%	400V 400V 400V 400V
T252 1-404-146-00 T253 1-408-532-00	COIL, VARIABLE		C617 C618	1-123-581-00 1-136-173-00 1-123-356-00 1-108-587-00	FILM ELECT	0.47MF 10MF	5% 20% 10%	50V 35V 50V
T254 1-408-513-00 T255 1-408-532-00 T256 1-425-794-00	COIL, VARIABLE BPT-2		C619   C620   C621   C622	1-108-387-00 1-161-328-00 1-123-356-00 1-124-602-00	CERAMIC ELECT	0.022MF 0.0047MF 10MF 2200MF	30% 20% 20%	50V 35V 35V
T257 1-405-372-00 CR	COIL BAT YSTAL		   C623   C624   C625	1-108-833-00 1-123-356-00 1-106-180-00	ELECT MYLAR	0.0047MF 10MF 0.0022MF	10% 20% 10%	50V 35V 50V
	CRYSTAL, OSC	******	C626   C631	1-102-074-00 1-123-362-00		0.001MF 330MF	10% 20%	50V 50V
*1-615-907-11			C632 C633	1-130-806-00 1-102-074-00	CERAMIC	0.1MF 0.001MF	10% 10%	400V 50V
CA	PACITOR		 	DIC	<del>_</del>			
	COVER, CAPACITOR; C600	250V	D610   D611   D612   D613   D614	8-719-300-63 8-719-924-06 8-719-102-74 8-719-901-93 8-719-911-19	DIODE ERC24- DIODE RD6.2E DIODE V19E	06S -N2		
1-533-087-00	FUSE, TIME-LAG 3.15A/250V HOLDER, FUSE; F601		D615   D616   D625   D626	8-719-908-20 8-719-102-90 8-719-924-06 8-719-101-24	DIODE ERC88- DIODE RD10E- DIODE ERC24-	009 N2 06S		
	NNECTOR OR SHIP (M)		0020		NECTOR	02		
FA1 *1-508-765-00 FA2 *1-508-786-00 FA3 *1-508-786-00 FA4 *1-508-765-00	2P PLUG (M) 2P PLUG (M)		FB1 FB2	*1-508-765-00 *1-564-353-00	3P PLUG (M)	TOR (2.5MM)	2P	
RE	SISTOR		!	<u>10</u>				
R600 1-202-724-00	SOLID 2.7M 10% 1/2W		IC611	8-759-171-15 8-759-906-62		Y		
				<u>CO1</u>	<u>L</u>			
	FB BOARD, COMPLETE ***********************************		L611 L612	1-408-412-00 1-407-365-00		OR 18UH		
*2-430-232-00 *4-374-808-01	SPACER, INSULATING			TRA	NSISTOR			
*4-374-846-11	COVER, CAPACITOR, CAP TYPE COVER, CAPACITOR, CAP TYPE PACITOR		Q610   Q611   Q612	8-729-802-07 8-729-177-43 8-729-177-43	TRANSISTOR 2	SD774		
C606 A.1-130-808-61	<del></del>	400V	77-7					
C607 A.1-161-743-51		400V	i					

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.



<u>Ref</u>	No. Part No.	Descript	ion			Rema	rk	Ref.N	lo. Part No.	D	escript	ion		
		RESISTOR						!				10/1		-
R61 R61 R61 R61	2 1-247-725- 3 1-244-929- 4 1-247-807-	-11 CARBON -00 CARBON -00 CARBON	10K 220K 100	5%	2W 1/4W 1/2W 1/6W	F	!	C207   C208   C209   C210   C211	1-123-329 1-123-333	-51 EL -00 EL -21 CE	ECT ECT ECT RAMIC ECT	10 10 0.	BMF DMF DOMF O47MF MF	20% <sup>-</sup> 20% 20%
R 61 6 R 61 8 R 61 8 R 62 0	6 1-215-868- 7 1-247-847- 8 1-247-847- 9 1-215-463-	00 METAL OXI 00 CARBON 00 CARBON 00 METAL	680 0E 680 4.7K 4.7K 56K 10K	5% 1%	1/6W 1W 1/6W 1/6W 1/6W	F		C212 C213 C214 C215 C216	1-123-318- 1-123-318- 1-123-318- 1-123-329- 1-123-333-	.00 EL .00 EL .51 EL .00 EL	ECT ECT ECT ECT ECT	33 33 10	MF	20% 20% 20% 20% 20%
R 621 R 622 R 623 R 624 R 625	1-247-847- 1-249-421- 1-247-879-( 1-249-421-)	OO CARBON 11 CARBON OO CARBON 11 CARBON	4.7K 2.2K 100K 2.2K	1% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W			C217 C219 C220 C221	1-101-006- 1-101-006- 1-101-006- 1-101-006-	21 CE	RAMIC RAMIC RAMIC RAMIC	0.0	047MF 047MF 047MF 047MF	
			E 220	5%	1W	F	Ì							
R627 R628 R629	1-215-447-0 1-215-465-0 1-215-447-0	O METAL O METAL	12K 68K 12K	1% 1% 1%	1/6W 1/6W			D201 D206	8-719-911- 8-719-102-	90 DIC	DE 1551 DE RD10	19 )E-N2		
R630 R641	1-247-849-0	O CARBON	5.6K	5%	1/6W 1/6W				<u>]</u>	C				
R 645	1-249-421-1	O CARBON	2.2K 220	5% 5%	1/6W 1/8W	r		IC 201 IC 203	8-752-006-1 8-752-006-1	0 IC	CX 20061 CX 20061			
R646 R647	1-247-825-0 1-205-636-1	O CARBON	560	5%	1/6W	'	-			ONNECT				
R 648	1-213-160-1	METAL OXIDE	3.3 27K	5% 5%	5W 1W	F	į,	01	_		_			
R 649	1-213-160-1	L METAL OXIDE ARIABLE RESIST	27K	5%		F	(	Q2 Q3	*1-564-441-1 *1-564-354-0 *1-564-354-0 *1-564-354-3	O PLUC O PLUC	. CUNNI	ECTOR ( ECTOR (	2.5MM)	3P
RV610	1-230-233-11			0001	4 7		1	Į <b>4</b>	*1-564-354-2	l PLUG	, CONNE	CTOR (	2.5MM)	3P
			ERAMIL (A	KBUN	4./K		-		<u>T1</u>	RANSIST	OR			
T611 4	1-421-760-11 1-421-760-11 1-448-146-21 1-437-173-11	LFT	, CONVERTE DRIVE	ER (S.	.R.T)		10	201 202 203 209 210	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-603-30	TRAN TRAN TRAN	SISTOR SISTOR SISTOR SISTOR SISTOR	2SC245 2SC245 2SC245	8 8 8	
	VA	RISTOR						211 212	8-729-245-83 8-729-245-83	TRAN:	SISTOR SISTOR	2SC 245/	₹	
	1-807-181-11						!		ρF	SISTOR			-	
*****	******	******	*****	****	*****	*****	1 02	201						
	*A-1270-161-A	Q BOARD, COM	PLETE ****				R2   R2   R2	202 203 204	1-247-875-00 1-247-873-00	CARBO CARBO CARBO	N N N	75 1K 68K 56K	1% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W
	1-536-937-11	TERMINAL BOA	RD, INPUT,	/OUTPL	UΤ	( 	KZ	:05	1-247-831-00	CARBO	N	1K	5%	1/6W
C201		ACITOR					R2	07 1	-247-807-00 -247-807-00	CARBO CARBO		100 100	5% 5%	1/6W 1/6W
C202	1-123-333-00 1-101-006-21 1-123-329-51 1-123-318-00	ELECT CERAMIC ELECT	100MF 0.047MF 10MF	20 20	0% 25 50 0% 25	v į	R20 R20 R21	09 1	-247-831-00 -247-799-00 -214-702-00	CARBOI CARBOI METAL		1K 47 75	5% 5% 1%	1/6W 1/6W 1/4W
C 205	1-123-318-00	ELECT ELECT	33MF 33MF	20 20	<b>%</b> 16	v į	R21	l2 1	-247-713-11 -247-875-00	CARBON CARBON		1K 68K	5% 5%	1/4W 1/6W
C206	1-123-329-51	ELECT	10MF	20	<b>%</b> 25\	/	R21 R21	14 1	-247-873-00 -247-831-00	CARBON CARBON		56K 1K	5% 5%	1/6W 1/6W

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



									Q	С	D	D	DB
Ref.No	o. Part No.	Description				<u>Remark</u>	Ref.No.	Part No.	Description				Remark
R215 R216 R217 R218 R219	1-247-807-00 1-247-849-00 1-247-843-00 1-214-702-00 1-247-713-11	CARBON CARBON CARBON METAL CARBON	100 5.6K 3.3K 75 1K	5% 5% 5% 1% 5%	1/6W 1/6W 1/6W 1/4W 1/4W		NE 703	NEC 1-519-013-13 1-519-013-13 1-519-013-13 1-519-108-XX	DISCHARGE TU DISCHARGE TU	JBE JBE			
R220 R221 R222 R223 R224	1-247-875-00 1-247-873-00 1-247-853-00 1-247-841-00 1-247-807-00 1-247-875-00	CARBON CARBON CARBON CARBON CARBON	68K 56K 8.2K 2.7K 100	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		Q701   Q701   Q702   Q703		TRANSISTOR 2 TRANSISTOR 2	2SC2611 2SC2611			
R227 R228 R229 R230	1-247-867-00 1-247-831-00 1-247-823-00 1-247-831-00	CARBON CARBON CARBON	33K 1K 470 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R701 R702 R703	RES 1-202-842-11 1-202-719-00 1-202-838-00	SOLID SOLID SOLID SOLID	220K 1M 100K	10%	1/2W 1/2W 1/2W	
R 231 R 232 R 233 R 234 R 235	1-247-807-00 1-247-849-00 1-247-843-00 1-247-119-00 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	100 5.6K 3.3K 330 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W		R706 R707 R709 R710	1-213-156-00 1-247-815-00 1-202-822-00 1-213-156-00	METAL OXIDE CARBON SOLID METAL OXIDE	12K 220 2.2K 12K	5% 5% 10% 5%	1W 1/6W 1/2W 1W	F
R 236 R 237 R 238 R 239 R 240	1-247-819-00 1-247-867-00 1-247-823-00 1-249-429-11 1-249-429-11	CARBON	330 33K 470 10K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R711 R712 R714 R715 R716	1-202-822-00 1-247-815-00 1-213-156-00 1-202-822-00 1-247-815-00	CARBON METAL OXIDE SOLID	2.2K 220 12K 2.2K 220	10% 5% 5% 10% 5%	1/2W 1/6W 1W 1/2W 1/6W	F
	SWI	ТСН						VAR	IABLE RESISTO	R			
\$201 \$202 \$203	1-553-725-00	SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE				[ ]	RV701	1-230-164-21 SPAN	RES, ADJ, <b>ME</b> RK GAP	TAL GLAZ	ZE 55M	1	
*****	******	******	*****	****	*****	  ******	SG701	1-519-063-XX	DISCHARGING	GAP			
	*A-1330-584-A	C BOARD, COMPI				!	*****	*****	*****	******	****	*****	*****
	1-526-691-00	SOCKET, CRT	***			   		1-615-160-11	DD BOARD				
	CON	NECTOR				ļ	*	1-564-451-11	PLUG, CONNEC	TOR (2.5	MM) 3	Р	
C1 C2 C3 C4	*1-564-442-11 *1-564-353-00 *1-564-354-00 *1-564-354-00	PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO	OR (2.5 OR (2.5	MM)	2P 3P		C870	1-161-328-00	CERAMIC	0.0047M	iF	30 <b>%</b>	50 <b>V</b>
	CAP	ACITOR				{ 		<u>IC</u>					
C701 C703 C704	1-102-223-00 1-102-050-00	CERAMIC (	0.0047M 0.01MF	1F	10%	2KV   500V		8-759-170-12 ******		*****	****	*****	****
C7U4	1-123-933-00 <u>COI</u>		LOMF		20%	160V	*	1-615-908-11	DB BOARD				
L 701 L 702	1-407-704-00 1-407-709-00	MICRO INDUCTOR	R 82UH R 220UH				D81 *	<u>CONN</u> 1-564-353-00	PLUG. CONNECT	FOR (2.5	MM) 2	ρ	

## CONNECTOR



# DA

Ref.No. Part No.	Description			Remark	Ref.No	. Part No.	Description			Remark
*A-1345-555-A	DA BOARD, CO				C866 C867	1-102-074-00 1-101-002-00		0.001MF 0.0022MF	10%	50 v 50 v
CAF	PACITOR			•		010	DE			
C800 1-123-380-00 C801 1-108-599-00 C802 1-108-837-00 C803 1-108-837-00 C804 1-123-369-00	ELECT MYLAR MYLAR MYLAR ELECT	1MF 0.068MF 0.01MF 0.01MF 4.7MF	20% 10% 10% 10% 20%	50V 50V 50V 50V 25V	D800   D801   D803   D804   D805	8-719-911-19 8-719-300-76 8-719-300-76	DIODE RD6.28 DIODE 1SS119 DIODE RHIA DIODE RHIA DIODE V19CSS	1		
C805 1-123-369-00 C806 1-130-868-00 C807 1-123-356-00 C808 1-123-356-00 C809 1-123-380-00	ELECT FILM ELECT ELECT ELECT	4.7MF 0.0056MF 10MF 10MF 1MF	20% 5% 20% 20% 20%	25V 50V 16V 50V 50V	D806 D807 D808 D809 D810	8-719-901-93 8-719-901-93 8-719-901-93 8-719-911-55 8-719-911-19	DIODE V19E	1		
C810 1-161-059-11 C811 1-102-121-00 C812 1-123-380-00 C813 1-123-356-00 C814 1-124-539-51	CERAMIC CERAMIC ELECT ELECT ELECT	0.047MF 0.0022MF 1MF 10MF 330MF	10% 10% 20% 20% 20%	50V 50V 50V 16V 35V	D811   D812   D813   D814   D815	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	  - 		
C815	FILM FILM FILM ELECT CERAMIC	0.0022MF 0.033MF 0.0022MF 330MF 330PF	10% 3% 10% 20% 10%	630V 600V 630V 25V 500V	D816   D817   D818   D819   D820	8-719-901-83 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS83 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	) 		
C823 1-123-347-00	ELECT	330MF	20%	35 V		CON	NECTOR			
C824 ±.1-102-030-51 C825 1-123-933-00 C826 1-123-329-51 C828 1-130-781-00	CERAMIC ELECT ELECT FILM	330PF 10MF 10MF 0.22MF	10% 20% 20% 10%	500V 160V 25V 100V	DA1   DA2   DA3   DA4	*1-564-440-11 *1-564-353-00 *1-564-443-11 *1-564-353-00	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM)	2P 7P	
C830 1-123-356-00 C831 1-108-591-00 C832 1-108-591-00 C833 1-123-380-00 C834 1-136-173-00	ELECT MYLAR MYLAR ELECT FILM	10MF 0.033MF 0.033MF 1MF 0.47MF	20% 10% 10% 20% 5%	16V 50V 50V 50V 50V	DA5 DA6 DA7 DA8	*1-508-765-00 *1-564-354-00 *1-564-445-11 *1-564-354-00	PLUG, CONNEC	TOR (2.5MM)	9P	
C835 1-123-322-00	ELECT	330MF	20%	16V	!	īc				
C836 1-124-245-00 C837 1-123-379-00 C838 1-108-837-00 C839 1-108-845-00 C840 1-102-832-00	CERAMIC	4.7MF 0.47MF 0.01MF 0.047MF	20% 20% 10% 10%	25 V 50 V 50 V 50 V			IC UPC1377C IC UPC1378H- HEAD, WASHER IC UPC4558C IC TC4030BP	P , TAPPING S	CREW; I	C801
C841 1-123-360-00 C842 1-123-335-00	ELECT ELECT	100MF 330MF	20% 20%	50V 25V	IC 804	8-759-245-38	IC TC4538BP			
C843 1-108-837-00 C844 <u>A</u> .1-102-030-51	MYLAR CERAMIC	0.01MF 330PF	10% 10%	50V 500V	1	<u>C01</u>	L			
C845 1-136-337-11 C846 1-124-258-00 C850 1-123-329-51 C851 1-106-176-00 C853 1-106-180-00	FILM ELECT ELECT MYLAR MYLAR	3.3MF 3.3MF 10MF 0.0015MF 0.0022MF	10% 20% 20% 5% 5%	100V 25V 25V 50V 50V		1-408-242-00 1-408-403-00 1-459-370-11 1-459-597-11 1-459-403-00	MICRO INDUCT MICRO INDUCT COIL, FERRIT COIL, VARIAE COIL (WITH C	OR 3.3UH E (HLC) LE		
C854 1-102-529-00 C856 1-102-973-00 C857 1-102-038-51 C864 1-124-537-00	CERAMIC CERAMIC CERAMIC ELECT	100PF 100PF 0.001MF 1200MF	5% 10% 20%	50V 50V 500V 35V	L806     	1-408-421-00	MICRO INDUCT	OR 100UH		

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

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Ref.No	Part No.	Description				Remark	Ref.No.	Part No.	Description			Remark
Q800 Q801	8-729-245-83 8-729-201-62	NSISTOR  TRANSISTOR 25 TRANSISTOR 25	C 2555-				R850   R851   R852   R853   R855	1-249-429-11 1-249-429-11 1-249-411-11 1-247-831-00 1-215-434-00	CARBON CARBON CARBON CARBON METAL	10K 5% 10K 5% 330 5% 1K 5% 3.6K 1%	1/6W 1/8W 1/6W	F
Q802	*4-363-404-00 4-363-414-00 8-729-201-99	HOLDER, IC; C SPACER, MICA; TRANSISTOR 25	Q801 C3075				R860   R861   R862	1-247-847-00 1-247-847-00 1-247-867-00	CARBON CARBON CARBON	4.7K 5% 4.7K 5% 33K 5%	1/6W 1/6W	
Q803		TRANSISTOR 2S	66.2438				R863   R864	1-247-831-00 1-247-879-00	CARBON CARBON	1K 5% 100K 5%	1/6W	
R 800 R 801 R 802 R 803 R 804	1-249-429-11 1-247-850-00 1-249-429-11 1-247-877-00 1-247-857-00	CARBON CARBON CARBON CARBON CARBON	10K 6.2K 10K 82K 12K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R866 R867 R868 R869	1-249-429-11 1-215-433-00 1-247-871-00 1-247-871-00 1-215-469-00	CARBON METAL CARBON CARBON METAL	10K 5% 3.3K 1% 47K 5% 47K 5% 100K 1%	1/6W 1/6W 1/6W	
R 807 R 808 R 809 R 810 R 811	1-247-851-00 1-247-867-00 1-247-827-00 1-247-827-00 1-247-827-00	CARBON CARBON CARBON CARBON CARBON	6.8K 33K 680 680 680	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R871   R872   R873   R874   R877	1-247-895-00 1-247-889-00 1-247-831-00 1-247-847-00 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	470K 5% 270K 5% 1K 5% 4.7K 5% 4.7K 5%	1/6W 1/6W 1/6W	
R812 R813 R815	1-206-648-00 1-212-360-00 1-247-851-00	METAL OXIDE METAL OXIDE CARBON	220 1 6.8K	5% 5% 5%	2W 1W 1/6W	F F	R879	1-247-803-00 VAR	CARBON IABLE RESISTOR	68 5 <b>%</b> R	( 1/6W	
R816 R818 R819	1-249-429-11 1-249-429-11 1-215-461-00	CARBON CARBON METAL	10K 10K 47K	5% 5% 1%	1/6W 1/6W 1/6W		RV801	1-230-522-11 1-230-522-11 1-228-720-00	RES, ADJ, ME RES, ADJ, ME RES, ADJ, CER	 TAL GLAZE TAL GLAZE RAMIC CARB	4.7K BON 1K	
R 820 R 821 R 822	1-215-449-00 1-247-879-00 1-213-143-00	METAL CARBON METAL OXIDE	15K 100K 1K	1% 5% 5%	1/6W 1/6W 1W	F	RV804	1-228-717-00 1-224-249-XX 1-223-102-00		TAL GLAZE	1K	
R824 R825	1-217-383-00 1-210-859-00	FUSIBLE CARBON	4.7 1.2	5% 5%	1/4W 1/8W	F F	RV806	1-228-727-00 1-226-703-00	RES, ADJ, CE	RAMIC CARB	30N 47K	
R 826 R 827	1-215-445-00 1-213-149-00	METAL METAL OXIDE	10K 3.3K	1% 5%	1/6W 1W	F		REL	AY			
R 828 R 829 R 830	1-213-149-00 1-213-149-00 1-249-429-11	METAL OXIDE METAL OXIDE CARBON	3.3K 3.3K 10K	5% 5% 5%	1W 1W 1/6W	F F	RY800	1-515-380-00				
R 831	1-249-429-11	CARBON	10K	5%	1/6W				NSFORMER			
R832 R833	1-247-851-00 1-247-863-00	CARBON CARBON	6.8K 22K		1/6W 1/6W		i	\.1-437-082-11				
R 834 R 835	1-247-859-00	CARBON CARBON	15K 10K	5% 5%	1/6W 1/6W		******	******	*****	******	*****	*****
R836	1-247-871-00	CARBON	47K	5 <b>%</b>	1/6W			*1-615-911-11	HA BOARD			
R837 R838	1-247-831-00 1-247-824-00	CARBON	1K 510	5%	1/6W 1/6W		İ	CAF	ACITOR			
R839 R840	1-247-852-00 1-247-863-00	CARBON	7.5K 22K		1/6W 1/6W		i C501	1-123-332-00	ELECT	47MF	20%	25 <b>v</b>
R842	1-247-883-00	CARBON CARBON	10K	5% 5%	1/6W		C502	1-101-004-00 1-123-332-00		0.01MF 47MF	20%	50V 16V
R 84 3	1-247-865-00	CARBON	27K	5%	1/6W		C591 C592	1-130-794-00 1-130-800-00		0.22MF 2.2MF	10% 10%	250V 250V
R 844 R 845	1-247-817-00 1-212-368-11	CARBON METAL OXIDE	270 4.7	5% 5%	1/6W 1W	F		DIC				
R 846 R 847	1-213-138-00	METAL OXIDE	390 390	5% 5%	1W 1W	F	   D502		DIODE 1SS119			
R 848 R 849	1-213-138-00 1-213-139-00 1-247-848-00	METAL OXIDE CARBON	470 5.1K	5%	1W 1W 1/6W	F	D590		DIODE RD6.2E			

The components identified by shading and mark  $\underline{A}$  are critical for safety. Replace only with part number specified.

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Ref.N	lo. Part No.	Description	<u>n</u>		Remark	Ref.No	Part No.	Descripti	on		D t
D591 D592	8-719-000-28 8-719-911-55	THYRISTOR (	CRO2AM-8			RV518	1-226-703-00 1-230-522-11	RES, ADJ,	— METAL GLAZE METAL GLAZE	4 7K	Remark -
	<u>co</u>	NNECTOR				RV519	1-226-774-00	RES, ADJ,	METAL GLAZE	47K	₹,
HA1	*1-564-451-11		CTOR (2.5MM	) 3P	•	 	<u>TH</u>	ERMISTOR			
HA2 HA3	*1-564-452-11 *1-564-451-11	PLUG, CONNE	CTOR (2.5MM)	4P		TH502	1-800-944-00	THERMISTOR	R TH-4700		
HA4 HA5	*1-564-451-11 *1-564-452-41	PLUG, CONNE	CTOR (2.5MM) CTOR (2.5MM)	3P		*****	*****	******	*****	*****	*****
HA6 HA7	*1-564-458-11 *1-564-450-11	PLUG, CONNE	CTOR (2.5MM) CTOR (2.5MM)	10P		! !	*1-615-912-11	HB BOARD			
на8 на9 на10	*1-564-353-00 *1-564-451-11 *1-560-278-00	PLUG, CONNE PLUG, CONNE PLUG, CONNE	CTOR (2.5MM) CTOR (2.5MM)	2P		 	*4-337-424-00 *4-374-809-01	HOLDER (L) HOLDER (3	, LED GANG), LED		
	TRA	INSISTOR					DIO	DDE			
Q502	8-729-245-83	TRANSISTOR :	250 2458		į	D503	8-719-812-31	DIODE TLR1	23		
Q503 Q590	8-729-245-83 8-765-620-00	TRANSISTOR 2	2SC 2458			D504 D505	8-719-812-32 8-719-812-32	DIODE TLY1	23		
4000			2301013			D506 D507	8-719-812-32 8-719-812-32	DIODE TLY1: DIODE TLY1:	23 23		
R 500	1-246-517-25	ISTOR	50V 54					INECTOR			
R501 R502	1-247-865-00	CARBON	68K 5% 27K 5%	1/6W	·	HB2 *	1-564-354-00		FCTOR (2 SMM	۱ 20	
R 503	1-247-883-00 1-247-887-00	CARBON	150K 5% 220K 5%	1/6W 1/6W	!		SWI		2.5	) 3r	
R504	1-247-867-00	CARBON	33K 5%	1/6W		S505	1-554-118-00		CH /1 VEV)		
R 505 R 506	1-247-867-00 1-247-873-00	CARBON CARBON	33K 5% 56K 5%	1/6W 1/6W	į	2200	1-554-118-00 1-554-118-00	SWITCH, PUS	SH (1 KEV)		
R 507 R 508	1-247-854-00 1-247-863-00	CARBON CARBON	9.1K 5% 22K 5%	1/6W 1/6W	į	2208	1-554-118-00	SWITCH, PUS	SH (1 KEY)		
R 509	1-247-831-00	CARBON	1K 5%	1/6W	ļ		1-554-118-00				
R510 R511	1-247-831-00 1-247-891-00	CARBON	1K 5%	1/6W			1-554-118-00				
R512 R513	1-247-871-00	CARBON	330K 5% 47K 5%	1/6W 1/6W	1,		******		******	*****	*****
R514	1 047 074 47	CARBON CARBON	100K 5% 47K 5%	1/6W 1/6W	[	*	1-614-496-11	X BOARD			
R515	1-247-878-00	CARBON	91K 5%	1/6W		**	4-337-424-00	HOLDER (L)	1 F.D.		
R516 R517	1-247-881-00 1-249-429-11	CARBON CARBON	120K 5% 10K 5%	1/6W 1/6W	İ		DIO		CLD		
R518 R519		CARBON CARBON	1K 5% 1.5K 5%	1/4W 1/6W	į	D680 8	3-719-812-33	•	24		
R520	1-247-851-00	CARBON	6.8K 5%	1/6W		****	J-/13-012-33	DIODE ILGIZ.	3A		
R 595 R 596	1-202-846-00 1-247-871-00	SOLID CARBON	470K 47K 5%	1/2W	ļ			-	*****	******	******
R598 R599	1-247-817-00 1-247-839-00	CARBON	270 5%	1/6W 1/6W	-			ELLANEOUS			
			2.2K 5%	1/8W F	ļ	<u> </u>	-451-265-11	DEFLECTION Y	YOKE (SY-167	)	
RV511		ABLE RESISTOR	_			1	-452-032-00 -452-094-00	MAGNET, DISK MAGNET, ROTA	(: 10MM ær		
RV512	1-230-762-11	RES, VAR, CAR RES, VAR, CAR	BON 20K		 	Ţ	-452-126-11 -508-723-00	MAGNET		1 3121 20	
RV514	1-230-/11-11 /	RES, VAR, CAR RES, VAR, CAR	RON 20K					3P INLET	•		
KA219	1-230-710-11	RES, VAR, CAR	BON 10K			1	-509-718-00	DIN 4P SOCKE	T		

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

11/22/2012

Ref.No. Part No.	Description	Remark
\$901 1.1-570-201-11	COIL, DEGAUSSING SWITCH, PUSH (AC POWER)(1 KEY) TRANSFORMER ASSY , FLYBACK CRT (A20JKU10X)	
******	*************	******

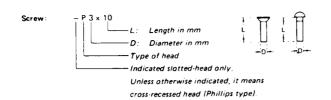
## ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
1-551-258-11 1-508-723-00 3-548-372-00 3-701-630-00 4-374-870-01	CORD, POWER  4P PLUG, DIN  BAG, POLYETHYLENE  BAG, POLYETHYLENE  CUSHION (UPPER)	
4-374-871-01 4-374-881-01 4-374-859-01 4-482-130-11	CUSHION (LOWER) INDIVIDUAL CARTON PLATE, NUMBER, TALLY MANUAL, INSTRUCTION	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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## HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
		SCREWS	•
Р	<b>₽</b> ⊒	pan-head screw	binding-head (B) screw for replacement
PWH	<b>8</b> ∋	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	85	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	<b>85</b>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€	round-head screw	binding-head (B) screw for replacement
К	Ð	flat-countersunk-head screw	
RK	₽	oval-countersunk-head screw	
В	þ	binding-head screw	
T	<b>₽</b>	truss-head screw	binding-head (B) screw for replacement
F	₽	flat-fillister-head screw	<del>-</del> !
RF	€⊃	fillister-head screw	
₿V	₽	brazier-head screw	

Nut, Washer, Retaining ring:	
N 3	-Diameter of usable screw or shaft
<u> </u>	- Reference designation

Reference Designation	Shape	Description	Remarks
		SELF TAPPING SCRE	ws
TA		self-tapping screw	ex: TA, P3 x 10
PTP	<b>=</b>	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
РТРЖН	<b>(</b>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH	<b>(1)</b>	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
	<u> </u>	SET SCREWS	
SC	- <del>-</del> E-3-	set screw	
sc	<b>⊕</b> €∃-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N	-[]-🚱-	nut	
		WASHERS	
W	0	flat washer	
sw	- F	spring washer	
LW	0	internal-tooth lock washer	ex: LW3, internal
LW	0	external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E	0	retaining ring	
G	୍ଷ	grip-type retaining ring	

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9-963-450-01

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# SONY. SERVICE MANUAL

AEP Model Chassis No. SCC-681A-A

# **SUPPLEMENT-1**

File this supplement with the service manual.

#### INTRODUCTION

Parts number modification of variable resistor.

About parts No. 1-615-911-12 of HA board, after that the shapes of variable resistors have modified, so maintain by following variable resistors.

:Indicates modification portion

## SECTION 7 ELECTRICAL PARTS LIST

Page 60

Ref. No. Part No.	Description	Remark Ref. No. Part No.	Description	<u>Remark</u>
RV511 1-238-968-11 RV512 1-238-971-11 RV513 1-238-972-11 RV514 1-238-972-11 RV516 1-238-970-11 RV517 1-228-994-00 RV518 1-228-993-00 RV519 1-228-996-00	RES, ADJ, METAL GLAZE 4.7K	▲ 1-451-265-11 1-452-032-00 1-452-094-00 1-452-126-11 1-508-723-00  ▲ 1-509-546-11 1-509-718-00	DEFLECTION YOKE (SY-167) MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø MAGNET 4P PLUG, DIN 3P INLET DIN 4P SOCKET	



9-963-450-81

Sony Corporation
Display Products Group

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